Bonded Magnet and Magnet Assemblies

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ARNOLD®
MAGNETIC TECHNOLOGIES

Arnold Magnetics (Shenzhen) Ltd
www.arnoldmagnetics.com

Introduction

PLASTIFORM® injection molded magnets combine high magnetic strength with excellent physical properties to offer a variety of features and benefits including:

High Magnetic Strength

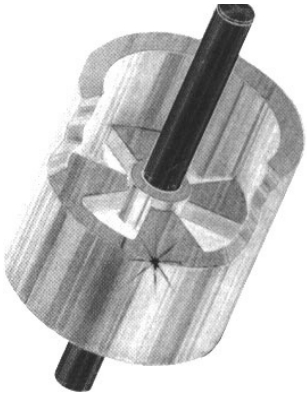
PLASTIFORM® molded magnets offer the highest energy available in bonded ferrite, neodymium-iron-boron and samarium cobalt. The ferrite and SmCo materials are highly oriented during the manufacturing process which contributes to maximum output. All materials are in maximum concentration consistent with good physical strength, complete mold cavity fill and magnetic orientability.

Superior Magnetic and Dimensional Capability

The injection molding process inherently and reproducibly yields parts with close dimensional and magnetic tolerances. These characteristics allow smaller, more efficient designs with increased design freedom, resulting in lower losses of available magnetic flux in many end-use applications. Typical tolerances, in general, will depend on part configuration and the type of tooling selected. Designers can consider standard tolerances of +/-0.003 in/in. Closer tolerances on critical dimensions can be negotiated.

Thermoplastic Binder System

Several binders are available including nylon 6, nylon 12, and PPS. The material for any specific application is chosen based on many factors including temperature capability, strength, water absorption, solvent resistance, complexity of the magnet shape, and compatibility with the magnet alloy powder.



Assembly Advantages

The injection molding process allows for molding directly on, in or over other components thus reducing secondary processing costs. This is called insert molding. Other processes in use in the plastics industry include multistep and multi-component injection molding where the magnetic material and other material(s) are molded either sequentially or simultaneously. Contact **Bonded Magnet and Magnet Assemblies Group (BMG)** at **Arnold Magnetics (Shenzhen) Limited** to determine the optimum processing method for your application.

Available, Net Shape

Injection molded magnets may be manufactured in very simple to very complex arrangements; in sizes less than a gram to over 125 grams. The resultant parts are net shape, rarely needing additional finish processes. When additional processing is required, for example, in the manufacture of prototypes, the molded magnets can be easily machined using conventional tools.

Applications

Plastiform® injection molded magnets combine high magnetic strength and shape versatility with superior magnetic and dimensional tolerances making them useful in a wide variety of electromagnetic circuit and equipment applications. Among these are:

- Magnetic stators for fractional horsepower DC motors
- Multi-pole magnetic rotors for brushless DC and stepper motors
- Magnetic actuators for a diverse range of magnetic switches and solenoids
- Sensors for automotive and industrial applications

Many other applications benefit from the advantages of injection molded magnets.

PLASTIFORM® Quality

PLASTIFORM® is manufactured using up-to-date statistical process control methods supervised with a plant-wide, computerized quality control system. Engineering experiments are performed utilizing formal DOE and analyzed statistically. The **Bonded Magnet and Magnet Assemblies Group (BMG)** has received numerous customer awards for service, quality, and on-time delivery.

Sampling/Prototyping/Tooling

Samples of PLASTIFORM® injection molded magnet materials for prototype evaluation can be supplied for design feasibility studies. Such samples may be machined to dimensions from molded stock material. When design parameters are finalized, larger numbers of directly molded magnets can be produced on a single cavity prototype tool. Sample magnets can be supplied in either an unmagnetized or magnetized state. Special magnetization patterns may require magnetizing fixtures to be fabricated.

A request for quote on engineering costs involved with prototype tooling should be directed to your Arnold sales representative or to the Customer Service Department at **Bonded Magnet and Magnet Assemblies Group (BMG)**. Please be prepared to discuss specific information on the part to be molded.

Introduction (Cont.)

Arnold Engineering Services

Arnold Application Engineering Services personnel are available for assistance in the following areas:

- **Application Inquiries –** provide answers to technical questions on magnet use for proposed applications.
- **Magnetization Requirements –** assist in defining requirements for production magnetizers, fixtures, and peripheral equipment in accordance with specific application needs.
- **Magnetic Optimization –** provide magnetic circuit design suggestions to achieve optimum product performance.
- **Prototype Testing and Evaluation –** perform testing and evaluation of design prototype and production parts in fully equipped laboratories.

More Products

New products are frequently introduced. For the latest Information, please contact the **Bonded Magnet and Magnet Assemblies Group (BMG)** at **Arnold Magnetics (Shenzhen) Limited**. Also check the Arnold website for product updates and information on Arnold and the Magnetic Industry.

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Plastiform® 2039

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2770 - 3070 Gs	277 - 307 mT
Coercive Force Hc	2190 - 2570 Oe	174 - 205 kA/m
Intrinsic Coercive Force Hci	2610 - 3070 Oe	208 - 244 kA/m
Maximum Energy Product (BH) max	1.85 - 2.35 MGOe	14.7 - 18.7 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

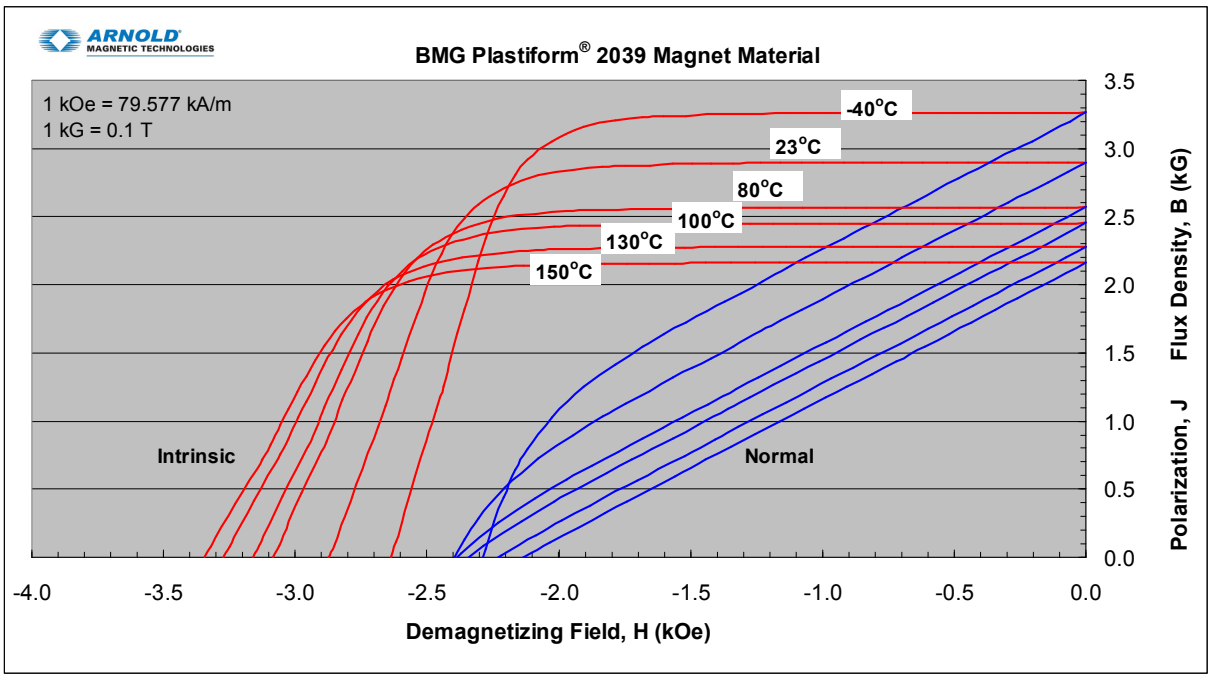
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	11745 psi	81.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	20445 psi	141 MPa
Flexural Modulus[2]	2900 ksi	20.0 GPa
IZOD Impact Strength[3]	19.0 kgf.cm/cm^2	19.0 kJ/m^2
Heat Deflection Temp.[4]	343 °F	173 °C
Hardness[5]	91 Shore D	91 Shore D
Density[6]	0.138 lb/in^3	3.80 g/cm^3
Maximum Operating Temperature	320 °F	160 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2040

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2760 - 3060 Gs	276 - 306 mT
Coercive Force Hc	2160 - 2540 Oe	172 - 202 kA/m
Intrinsic Coercive Force Hci	2670 - 3190 Oe	212 - 254 kA/m
Maximum Energy Product (BH) max	1.84 - 2.34 MGOe	14.6 - 18.6 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

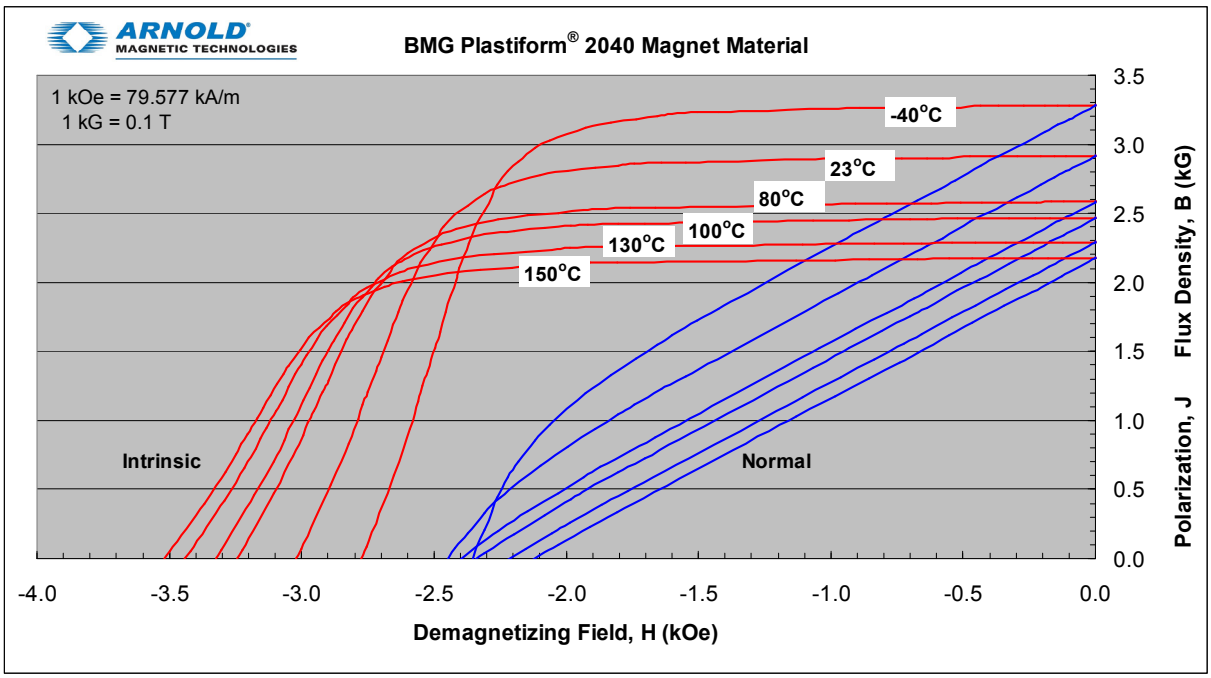
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	7105 psi	49.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	12905 psi	89.0 MPa
Flexural Modulus[2]	1450 ksi	10.0 GPa
IZOD Impact Strength[3]	18.0 $kgf.cm/cm^2$	18.0 kJ/m^2
Heat Deflection Temp.[4]	275 °F	135 °C
Hardness[5]	86 Shore D	86 Shore D
Density[6]	0.135 lb/in^3	3.75 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2048

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2620 - 2880 Gs	262 - 288 mT
Coercive Force Hc	2130 - 2510 Oe	170 - 199 kA/m
Intrinsic Coercive Force Hci	2730 - 3210 Oe	217 - 255 kA/m
Maximum Energy Product (BH) max	1.57 - 1.99 MGOe	12.5 - 15.9 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

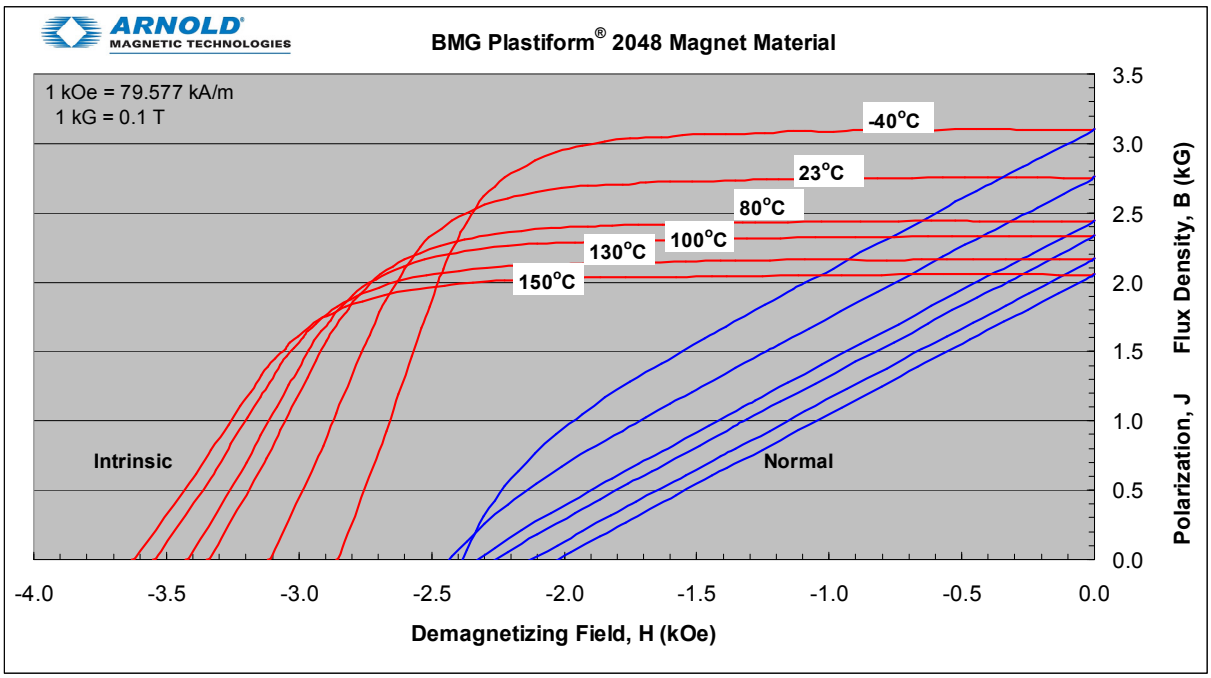
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	9715 psi	67.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	17110 psi	118 MPa
Flexural Modulus[2]	1450 ksi	10.0 GPa
IZOD Impact Strength[3]	30.0 kgf.cm/cm^2	30.0 kJ/m^2
Heat Deflection Temp.[4]	329 °F	165 °C
Hardness[5]	87 Shore D	87 Shore D
Density[6]	0.128 lb/in^3	3.55 g/cm^3
Maximum Operating Temperature	320 °F	160 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2049

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2220 - 2460 Gs	222 - 246 mT
Coercive Force Hc	2000 - 2340 Oe	159 - 186 kA/m
Intrinsic Coercive Force Hci	3000 - 3600 Oe	239 - 286 kA/m
Maximum Energy Product (BH) max	1.20 - 1.52 MGOe	9.5 - 12.1 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

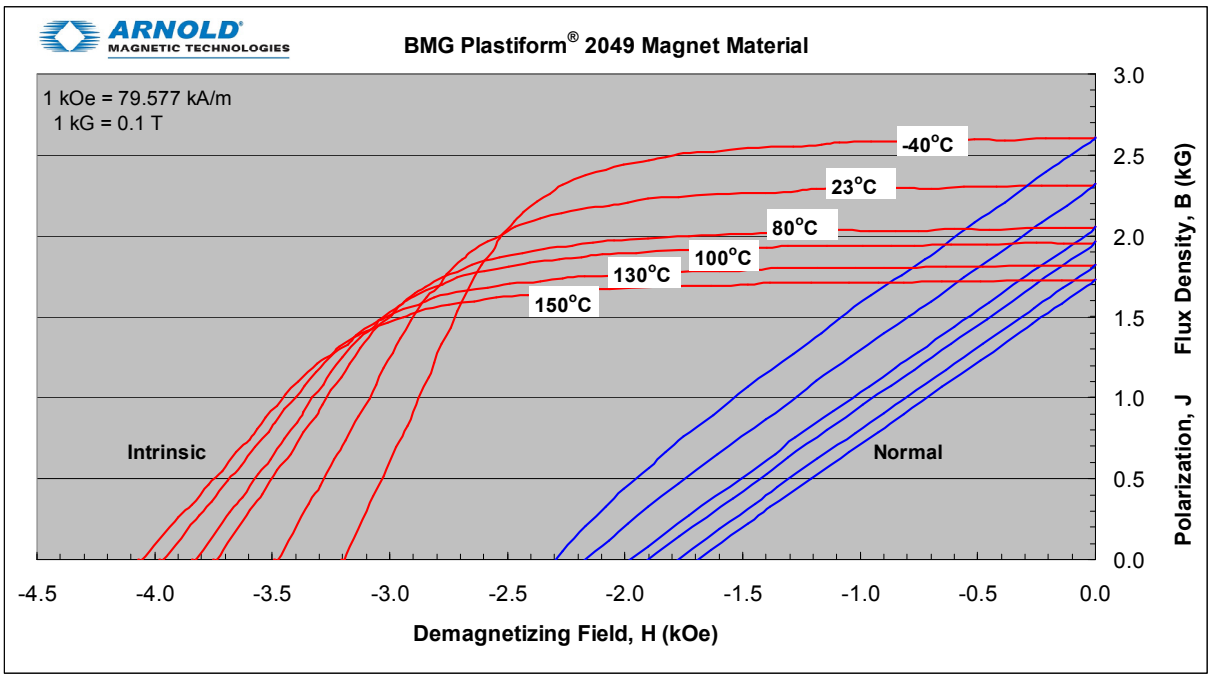
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	7105 psi	49.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	13050 psi	90.0 MPa
Flexural Modulus[2]	1160 ksi	8.0 GPa
IZOD Impact Strength[3]	22.0 $kgf.cm/cm^2$	22.0 kJ/m^2
Heat Deflection Temp.[4]	273 °F	134 °C
Hardness[5]	83 Shore D	83 Shore D
Density[6]	0.116 lb/in^3	3.21 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2051

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2830 - 3130 Gs	283 - 313 mT
Coercive Force Hc	2210 - 2590 Oe	176 - 206 kA/m
Intrinsic Coercive Force Hci	2620 - 3140 Oe	209 - 249 kA/m
Maximum Energy Product (BH) max	1.89 - 2.41 MGOe	15.1 - 19.2 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

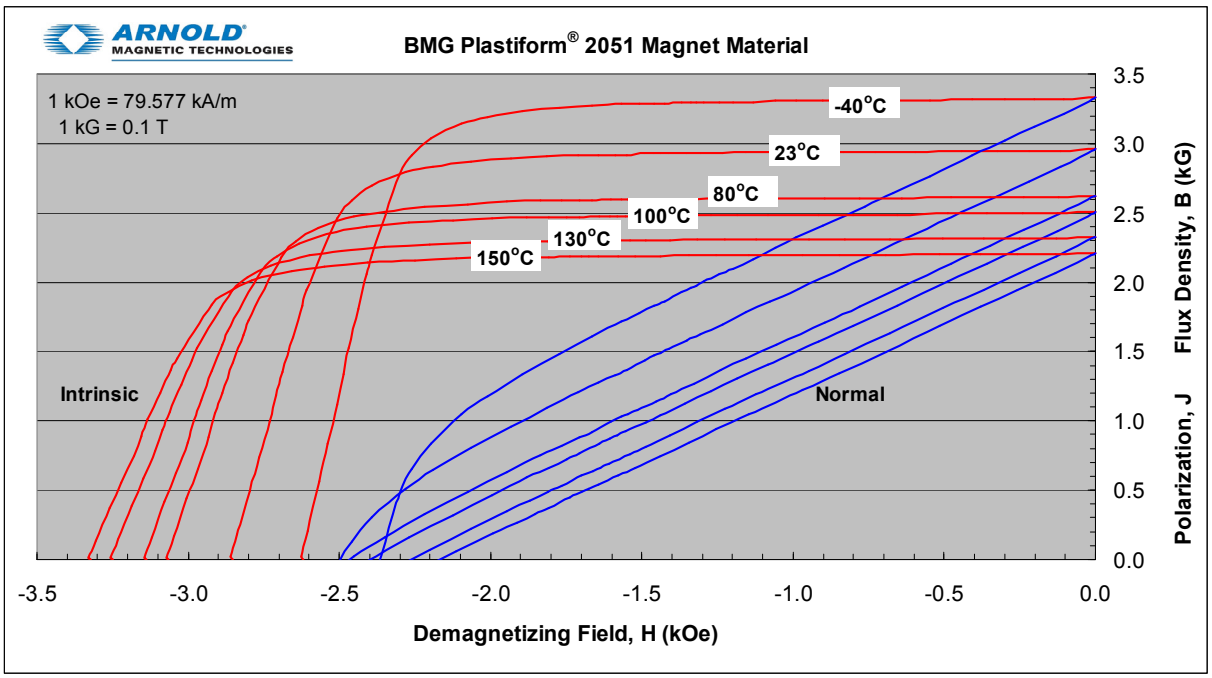
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	10440 psi	72.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	19575 psi	135 MPa
Flexural Modulus[2]	3045 ksi	21.0 GPa
IZOD Impact Strength[3]	18.0 $kgf.cm/cm^2$	18.0 kJ/m^2
Heat Deflection Temp.[4]	358 °F	181 °C
Hardness[5]	91 Shore D	91 Shore D
Density[6]	0.136 lb/in^3	3.76 g/cm^3
Maximum Operating Temperature	320 °F	160 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2052

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2560 - 2880 Gs	256 - 288 mT
Coercive Force Hc	2150 - 2530 Oe	171 - 201 kA/m
Intrinsic Coercive Force Hci	2780 - 3320 Oe	221 - 264 kA/m
Maximum Energy Product (BH) max	1.58 - 2.05 MGOe	12.6 - 16.3kJ/m^3
Reversible Temperature Coefficient of Br	-0.105% per °F	-0.19 % per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

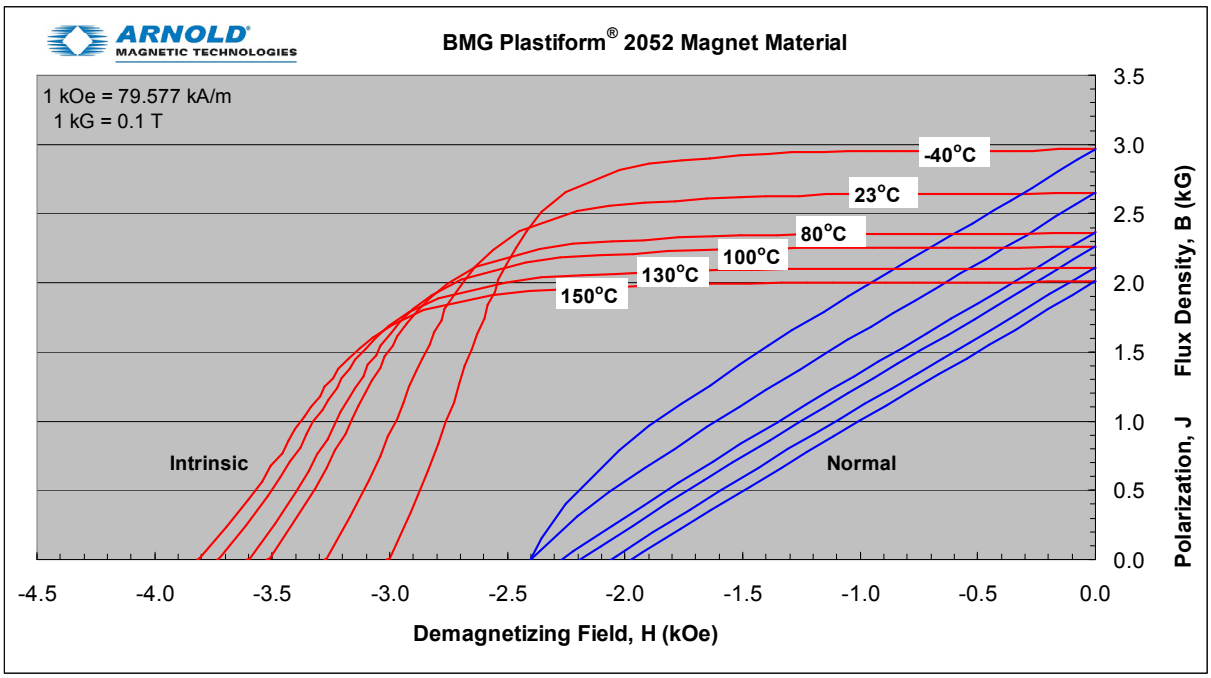
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	10005 psi	69.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	13195 psi	91.0 MPa
Flexural Modulus[2]	3045 ksi	21.0 GPa
IZOD Impact Strength[3]	5.5 kgf.cm/cm^2	5.5 kJ/m^2
Heat Deflection Temp. [4]	399 °F	204 °C
Hardness[5]	90 Shore D	90 Shore D
Density[6]	0.132 lb/in^3	3.65 g/cm^3
Maximum Operating Temperature	356 °F	180 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2054

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2080 - 2300 Gs	208 - 230 mT
Coercive Force Hc	1960 - 2310 Oe	156 - 184 kA/m
Intrinsic Coercive Force Hci	3310 - 3890 Oe	263 - 310 kA/m
Maximum Energy Product (BH) max	1.07 - 1.36 MGOe	8.5 - 10.8 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20 % per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

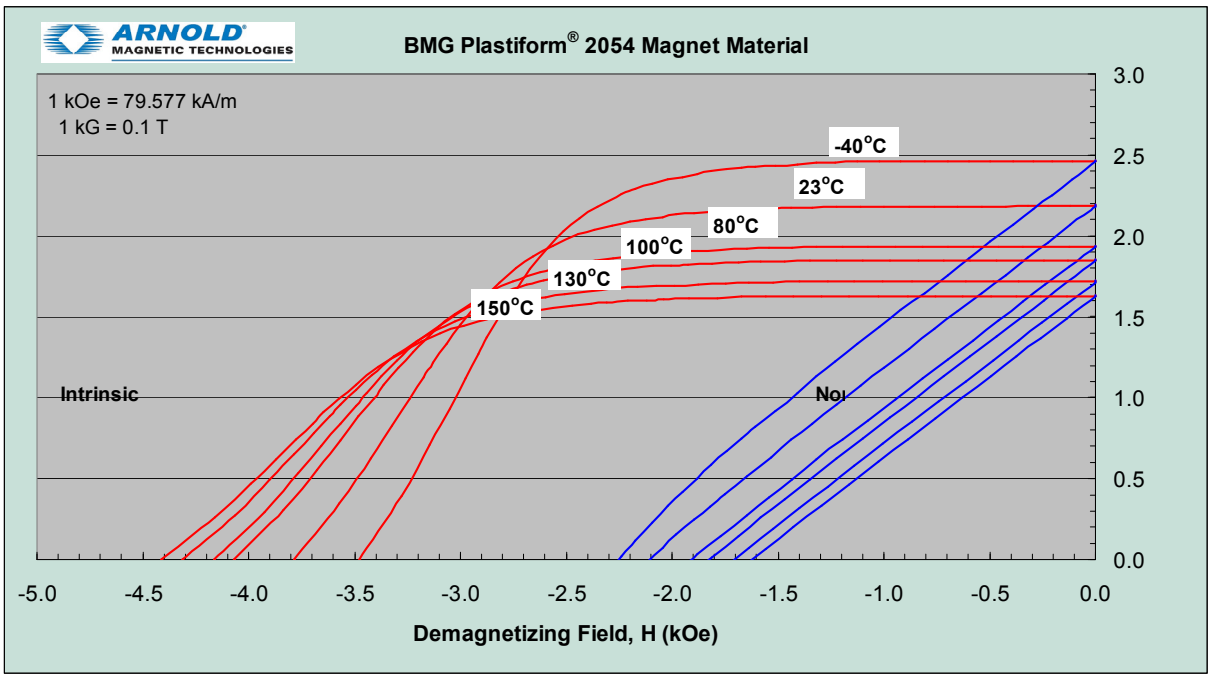
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	10585 psi	73.0 MPa
Elongation at Break[1]	< 3 %	< 3 %
Flexural Strength[2]	15950 psi	110 MPa
Flexural Modulus[2]	1160 ksi	8.0 GPa
IZOD Impact Strength[3]	26.0 kgf.cm/cm^2	26.0 kJ/m^2
Heat Deflection Temp.[4]	320 °F	160 °C
Hardness[5]	86 Shore D	86 Shore D
Density[6]	0.114 lb/in^3	3.15 g/cm^3
Maximum Operating Temperature	320 °F	160 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2055

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	1800 - 1980 Gs	180 - 198 mT
Coercive Force Hc	1580 - 1850 Oe	125 - 147 kA/m
Intrinsic Coercive Force Hci	2630 - 3150 Oe	209 - 250 kA/m
Maximum Energy Product (BH) max	0.76 - 0.97 MGOe	6.05 - 7.72 kJ/m^3
Reversible Temperature Coefficient of Br	-0.105% per °F	-0.19% per °C
Reversible Temperature Coefficient of Hci	-0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

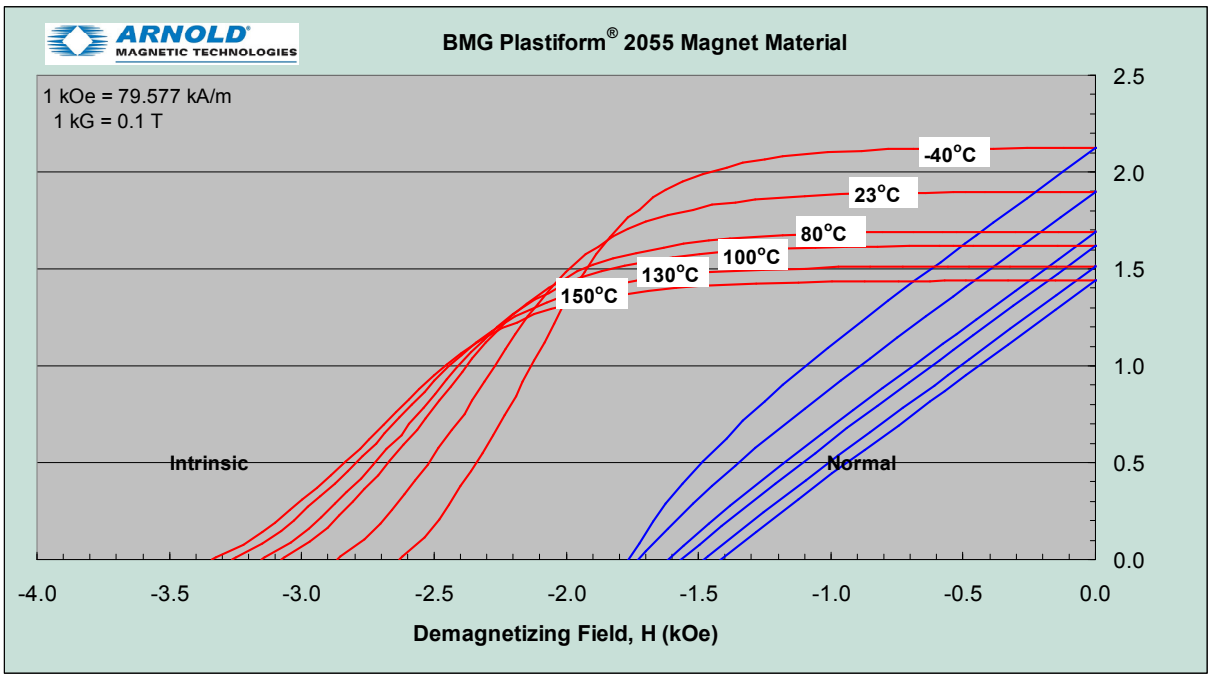
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	9425 psi	65.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	16240 psi	112 MPa
Flexural Modulus[2]	1740 ksi	12.0 GPa
IZOD Impact Strength[3]	8.5 kgf.cm/cm^2	8.5 kJ/m^2
Heat Deflection Temp. [4]	412 °F	211 °C
Hardness[5]	88 Shore D	88 Shore D
Density[6]	0.109 lb/in^3	3.50 g/cm^3
Maximum Operating Temperature	356 °F	180 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2056

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2600 - 2750 Gs	260 - 275 mT
Coercive Force Hc	1980 - 2410 Oe	158 - 192 kA/m
Intrinsic Coercive Force Hci	2550 - 3110 Oe	203 - 248 kA/m
Maximum Energy Product (BH) max	1.61 - 2.05 MGOe	12.8 - 16.3 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20 % per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

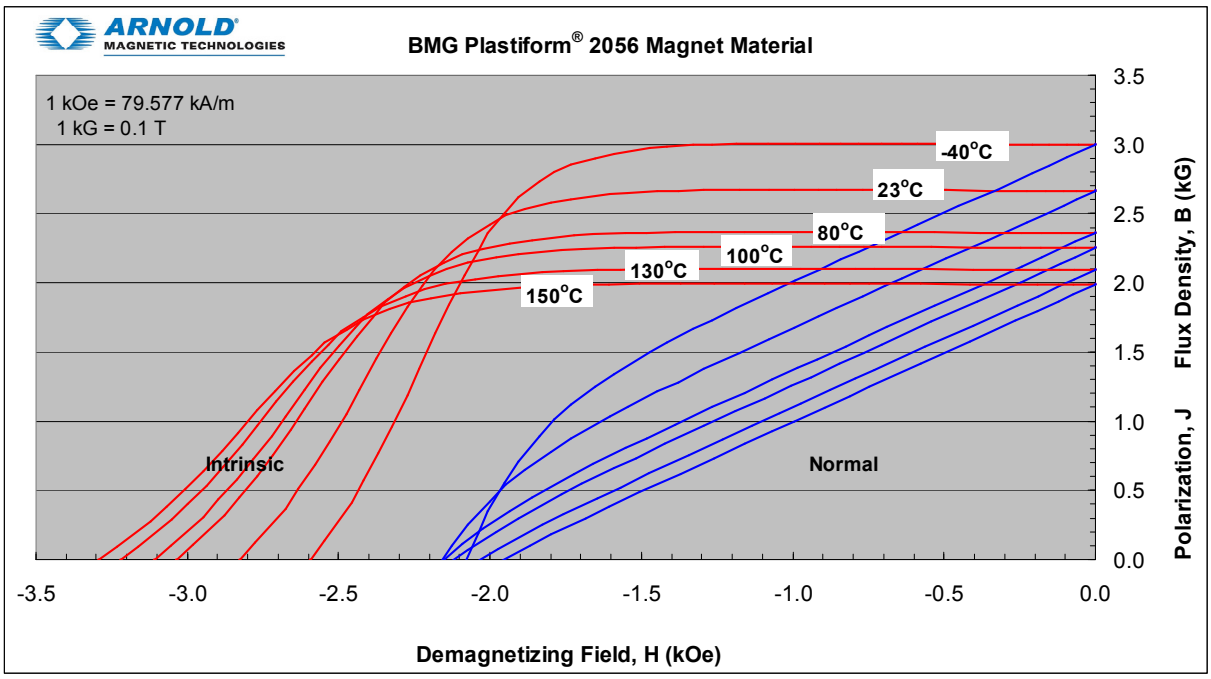
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	11745 psi	81.0 MPa
Elongation at Break[1]	< 2%	< 2 %
Flexural Strength[2]	20010 psi	138 MPa
Flexural Modulus[2]	2465 ksi	17.0 GPa
IZOD Impact Strength[3]	16.0 kgf.cm/cm^2	16.0 kJ/m^2
Heat Deflection Temp. [4]	327 °F	164 °C
Hardness[5]	89 Shore D	89 Shore D
Density[6]	0.127 lb/in^3	3.50 g/cm^3
Maximum Operating Temperature	320 °F	160 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2200 - 2440 Gs	200 - 244 mT
Coercive Force Hc	1690 - 2150 Oe	139 - 171 kA/m
Intrinsic Coercive Force Hci	2520 - 3200 Oe	199 - 271 kA/m
Maximum Energy Product (BH) max	1.14 - 1.45 MGOe	9.07 - 11.54 kJ/m^3
Reversible Temperature Coefficient of Br	-0.105% per °F	-0.19% per °C
Reversible Temperature Coefficient of Hci	-0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

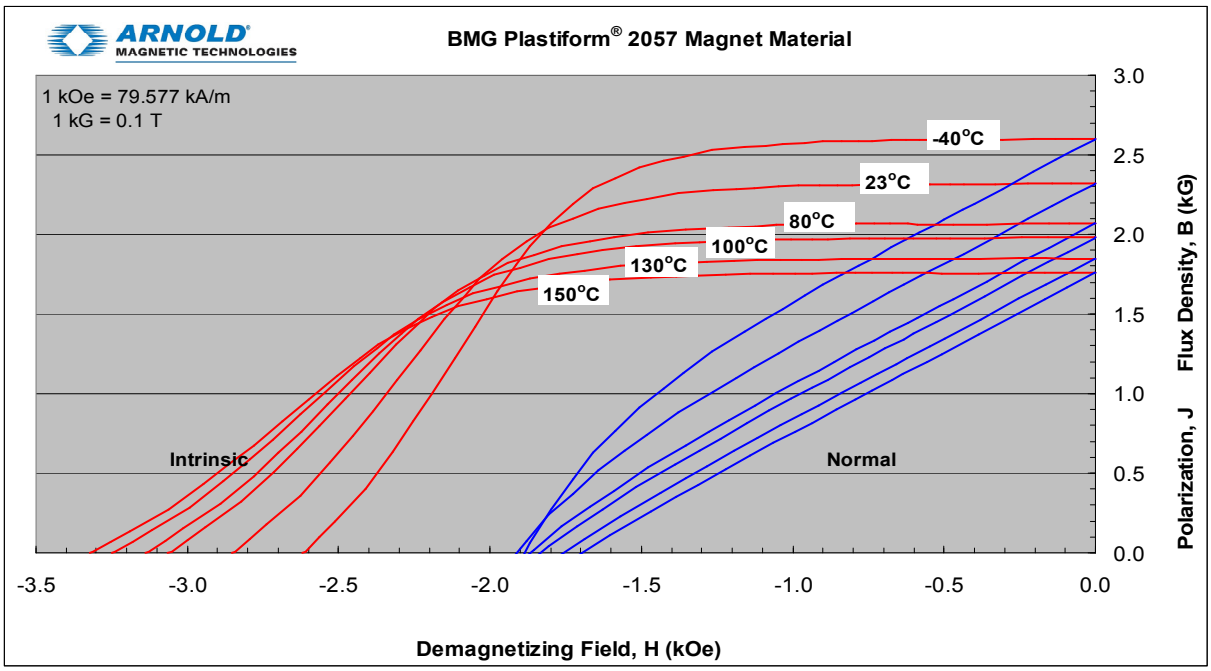
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	9280 psi	64.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	14935 psi	103 MPa
Flexural Modulus[2]	2755 ksi	19.0 GPa
IZOD Impact Strength[3]	6.5 kgf.cm/cm^2	6.5 kJ/m^2
Heat Deflection Temp.[4]	397 °F	203 °C
Hardness[5]	91 Shore D	91 Shore D
Density[6]	0.123 lb/in^3	3.40 g/cm^3
Maximum Operating Temperature	356 °F	180 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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ARNOLD MAGNETIC TECHNOLOGIES

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Plastiform® 2058

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2000 - 2300 Gs	200 - 230 mT
Coercive Force Hc	1750 - 2150 Oe	139 - 171 kA/m
Intrinsic Coercive Force Hci	2500 - 3400 Oe	199 - 271 kA/m
Maximum Energy Product (BH) max	0.95 - 1.25 MGOe	7.56 - 9.95 kJ/m^3
Reversible Temperature Coefficient of Br	-0.105% per °F	-0.19% per °C
Reversible Temperature Coefficient of Hci	-0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

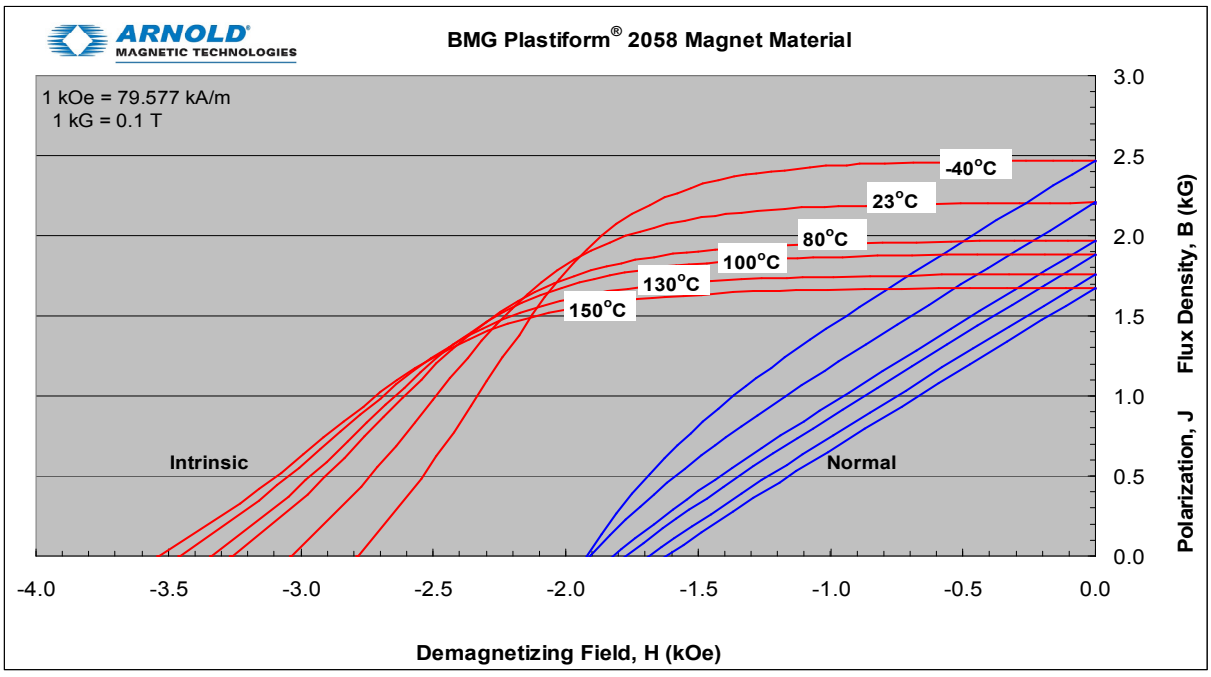
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	9,135 psi	63.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	16095 psi	111 MPa
Flexural Modulus[2]	2320 ksi	6.0 GPa
IZOD Impact Strength[3]	10.5 kgf.cm/cm^2	10.5 kJ/m^2
Heat Deflection Temp.[4]	394 °F	201 °C
Hardness[5]	91 Shore D	91 Shore D
Density[6]	0.119 lb/in^3	3.30 g/cm^3
Maximum Operating Temperature	356 °F	180 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2070

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2660 - 2940 Gs	266 - 294 mT
Coercive Force Hc	2140 - 2520 Oe	171 - 200 kA/m
Intrinsic Coercive Force Hci	2670 - 3190 Oe	212 - 254 kA/m
Maximum Energy Product (BH) max	1.71 - 2.17 MGOe	13.6 - 17.3 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

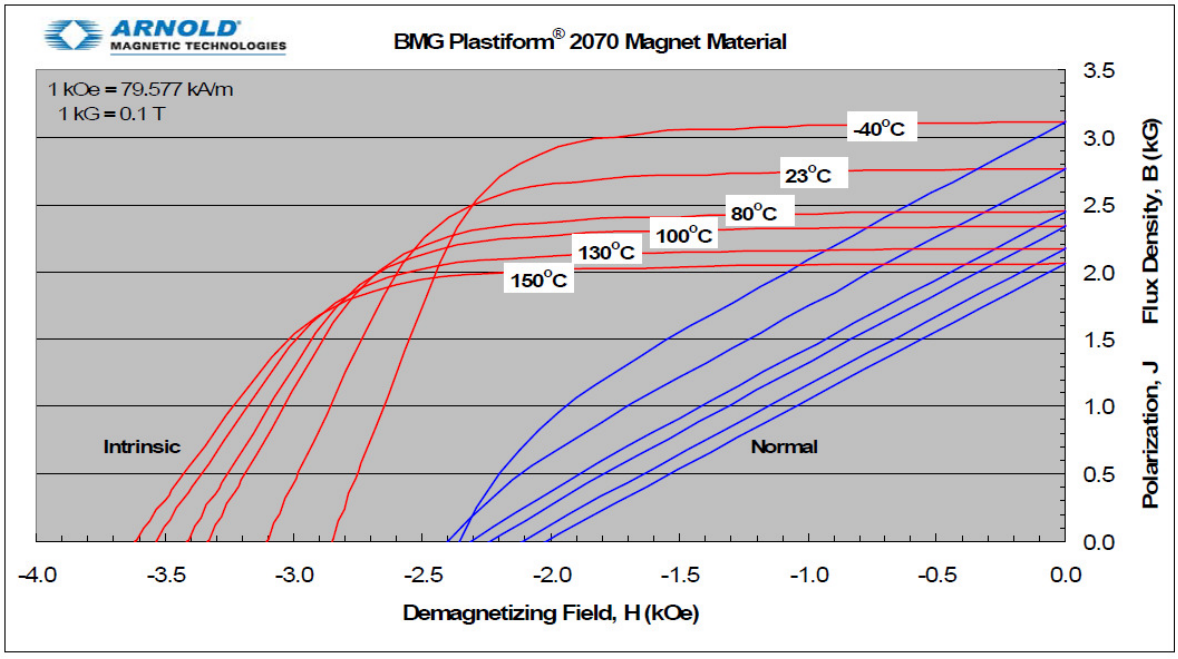
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	7975 psi	55.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	14645 psi	101 MPa
Flexural Modulus[2]	1595 ksi	11.0 GPa
IZOD Impact Strength[3]	19.0 $kgf.cm/cm^2$	19.0 kJ/m^2
Heat Deflection Temp.[4]	275 °F	135 °C
Hardness[5]	86 Shore D	86 Shore D
Density[6]	0.131 lb/in^3	3.63 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2071

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2550 - 2810 Gs	255 - 281 mT
Coercive Force Hc	2280 - 2680 Oe	182 - 213 kA/m
Intrinsic Coercive Force Hci	3360 - 4020 Oe	267 - 320 kA/m
Maximum Energy Product (BH)max	1.61 - 2.05 MGOe	12.8 - 16.3 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

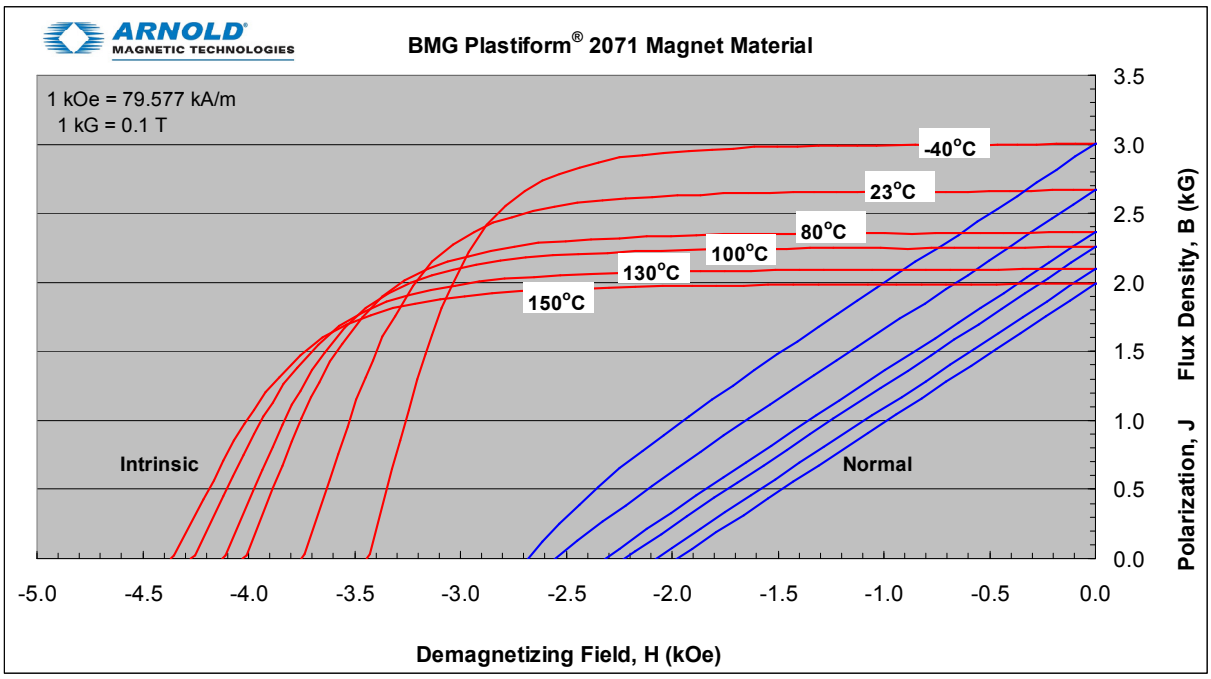
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	7,395 psi	51.0 MPa
Elongation at Break[1]	< 2%	< 2%
Flexural Strength[2]	13,485psi	93.0 MPa
Flexural Modulus[2]	1,595 ksi	11.0 GPa
IZOD Impact Strength[3]	23.0 kgf.cm/cm^2	23.0 kJ/m^2
Heat Deflection Temp.[4]	275 °F	135 °C
Hardness[5]	85 Shore D	85 Shore D
Density[6]	0.128 lb/in^3	3.53 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2101

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic SmCo magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	6220 - 6880 Gs	622 - 688 mT
Coercive Force Hc	5200 - 6000 Oe	414 - 477 kA/m
Intrinsic Coercive Force Hci	9660 - 12550 Oe	769 - 919 kA/m
Maximum Energy Product (BH) max	9.02 - 11.28 MGOe	71.8 - 89.7 kJ/m^3
Reversible Temperature Coefficient of Br	-0.02% per °F	-0.035% per °C
Reversible Temperature Coefficient of Hci	-0.11% per °F	-0.20% per °C
Peak Magnetizing Force Required	35,000 Oe	2800 kA/m

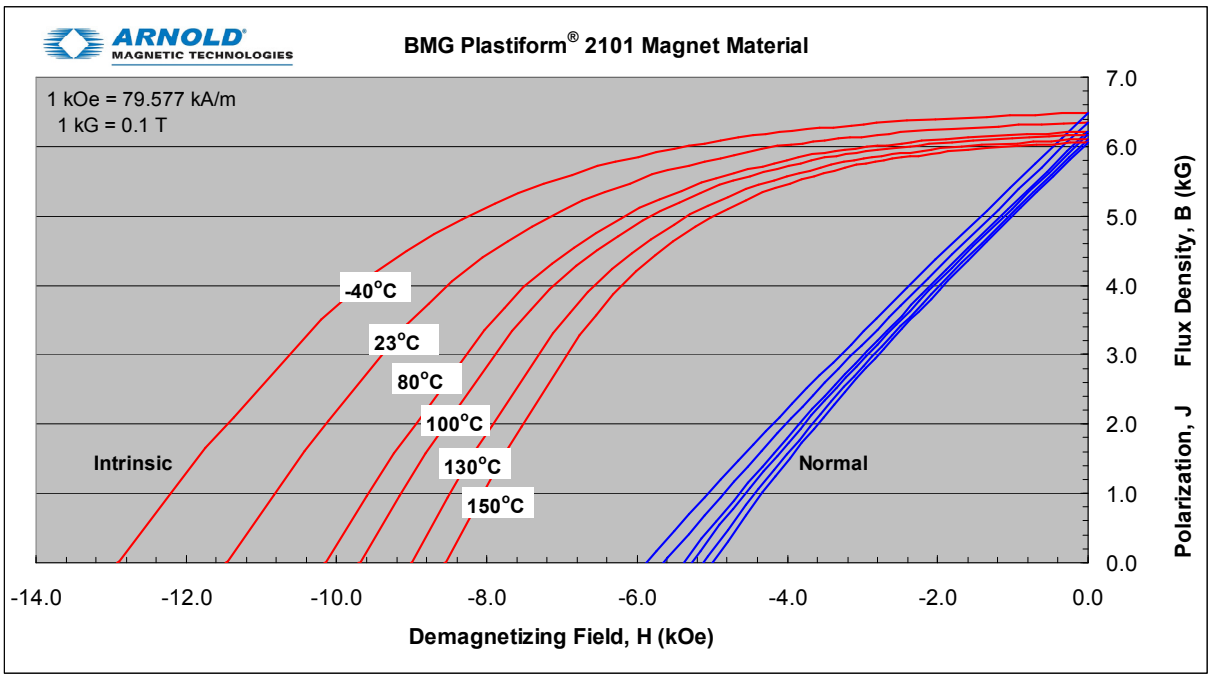
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	7540 psi	52.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	13050 psi	90.0 MPa
Flexural Modulus[2]	1885 ksi	13.0 GPa
IZOD Impact Strength[3]	48.0 kgf.cm/cm^2	48.0 kJ/m^2
Heat Deflection Temp.[4]	289 °F	143 °C
Hardness[5]	82 Shore D	82 Shore D
Density[6]	0.202 lb/in^3	5.60 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2103

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic SmCo magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	5800 - 6380 Gs	580 - 638 mT
Coercive Force Hc	5000 - 6000 Oe	398 - 477 kA/m
Intrinsic Coercive Force Hci	16000 - 28000 Oe	1273 - 2228 kA/m
Maximum Energy Product (BH) max	7.48 - 9.72 MGOe	59.5 - 77.4 kJ/m^3
Reversible Temperature Coefficient of Br	-0.02% per °F	-0.035% per °C
Reversible Temperature Coefficient of Hci	-0.11% per °F	-0.20% per °C
Peak Magnetizing Force Required	35,000 Oe	2800 kA/m

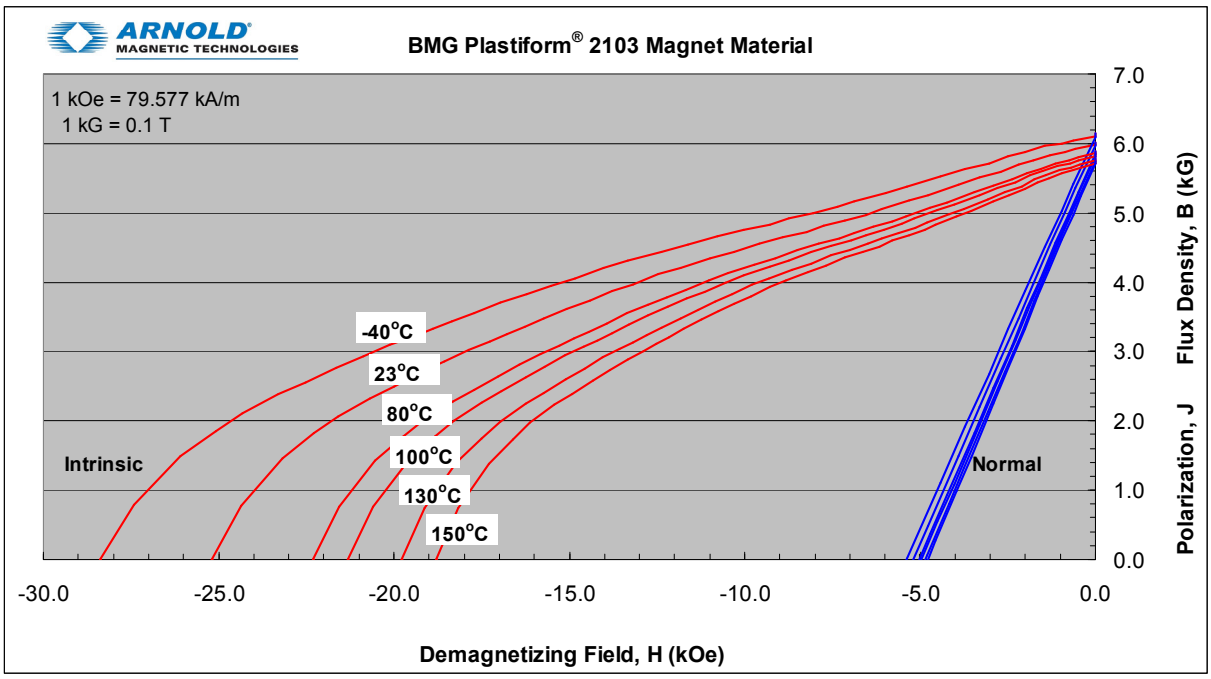
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	8410 psi	58.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	12760 psi	88.0 MPa
Flexural Modulus[2]	2465 ksi	17.0 GPa
IZOD Impact Strength[3]	14.0 kgf.cm/cm^2	14.0 kJ/m^2
Heat Deflection Temp.[4]	354 °F	179 °C
Hardness[5]	86 Shore D	86 Shore D
Density[6]	0.199 lb/in^3	5.50 g/cm^3
Maximum Operating Temperature	320 °F	160 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2105

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic SmCo magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	6050 - 6450 Gs	605 - 645 mT
Coercive Force Hc	5000 - 5800 Oe	398 - 461 kA/m
Intrinsic Coercive Force Hci	9500 - 11500 Oe	756 - 915 kA/m
Maximum Energy Product (BH) max	8.50 - 10.0 MGOe	67.6 -79.6 kJ/m^3
Reversible Temperature Coefficient of Br	-0.02% per °F	-0.035% per °C
Reversible Temperature Coefficient of Hci	-0.11% per °F	-0.20% per °C
Peak Magnetizing Force Required	35,000 Oe	2800 kA/m

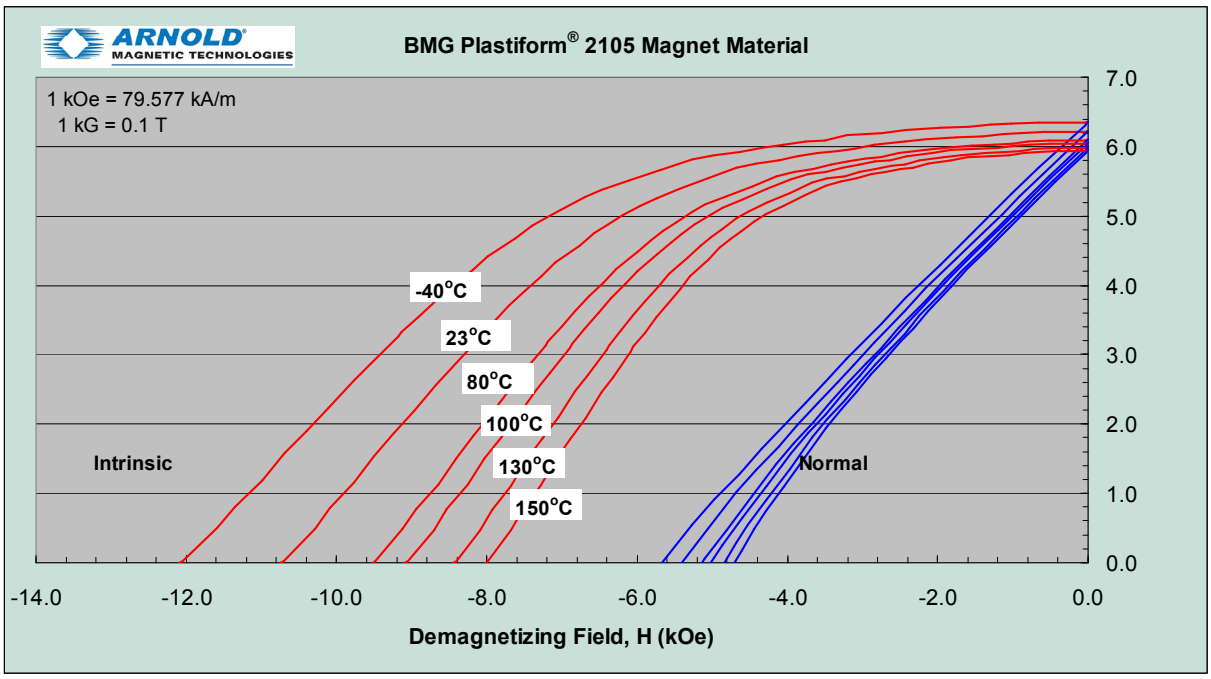
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	7230 psi	50.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	11600 psi	80.0 MPa
Flexural Modulus[2]	1450 ksi	10.0 GPa
IZOD Impact Strength[3]	20.0 kgf.cm/cm^2	20.0 kJ/m^2
Heat Deflection Temp.[4]	288 °F	142 °C
Hardness[5]	81 Shore D	81 Shore D
Density[6]	0.199 lb/in^3	5.50 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2202

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	5200 - 5800 Gs	520 - 580 mT
Coercive Force Hc	3600 - 4320 Oe	286 - 344 kA/m
Intrinsic Coercive Force Hci	7500 - 10000 Oe	597 - 796 kA/m
Maximum Energy Product (BH) max	5.00 - 7.15 MGOe	39.8 - 56.9 kJ/m^3
Reversible Temperature Coefficient of Br	-0.07% per °F	-0.13% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

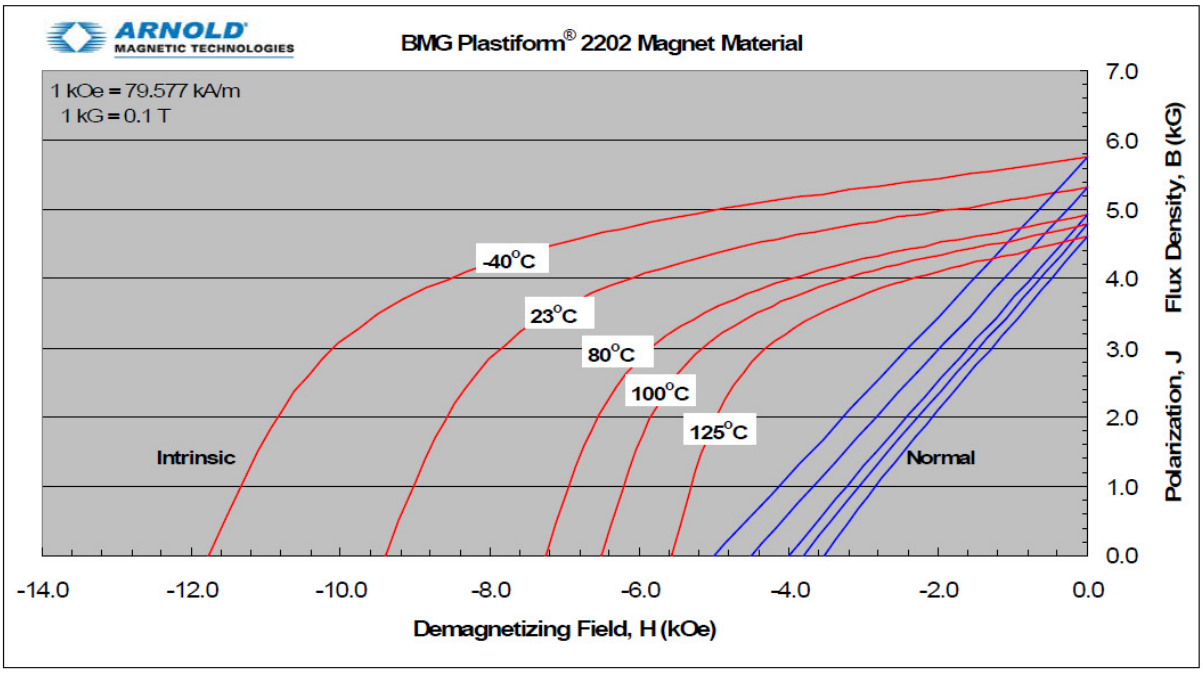
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	3190 psi	22.0 MPa
Elongation at Break[1]	< 3%	< 3%
Flexural Strength[2]	5075 psi	35.0 MPa
Flexural Modulus[2]	305 ksi	2.1 GPa
IZOD Impact Strength[3]	14.0 kgf.cm/cm^2	14.0 kJ/m^2
Heat Deflection Temp.[4]	122 °F	50 °C
Hardness[5]	76 Shore D	76 Shore D
Density[6]	0.175 lb/in^3	4.85 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2204

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4900-5390 Gs	490-539 mT
Coercive Force Hc	4100-4920 Oe	326-392 kA/m
Intrinsic Coercive Force Hci	11000-13200 Oe	875-1050 kA/m
Maximum Energy Product (BH)max	4.57 - 5.94 MGOe	36 - 47 kJ/m^3
Reversible Temperature Coefficient of Br	-0.07% per °F	-0.13% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

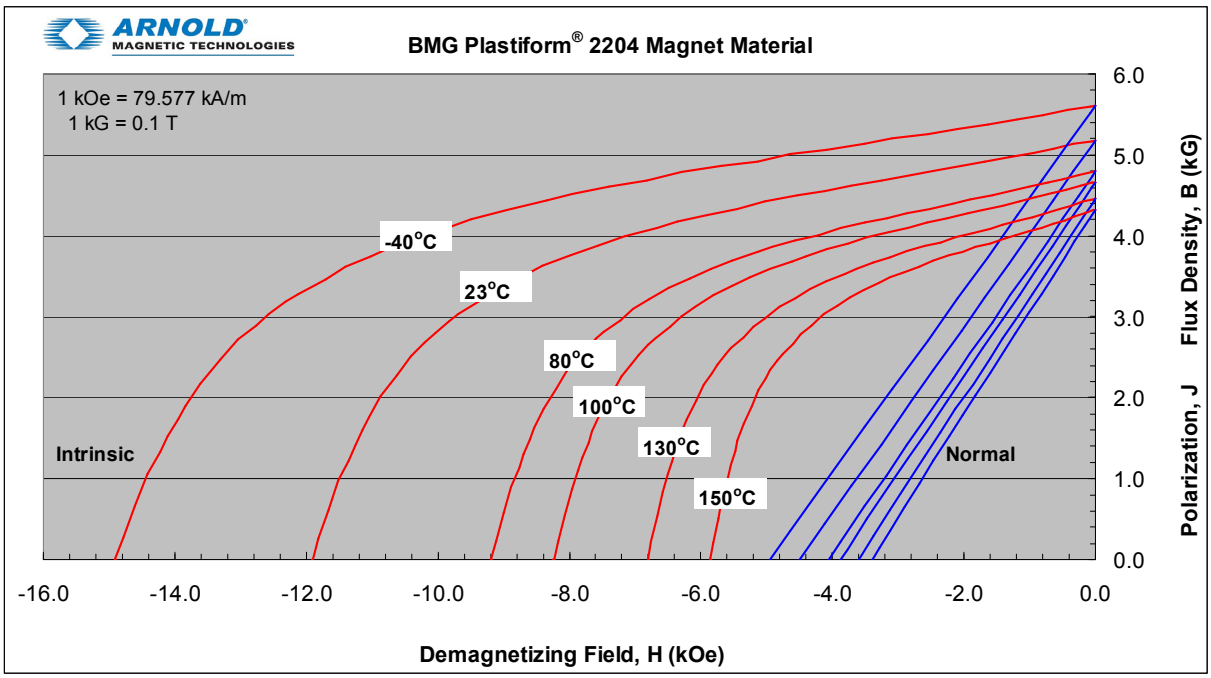
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	4205 psi	29.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	7250 psi	50.0 MPa
Flexural Modulus[2]	1450 ksi	10.0 GPa
IZOD Impact Strength[3]	10.0 kgf.cm/cm^2	10.0 kJ/m^2
Heat Deflection Temp.[4]	277 °F	136 °C
Hardness[5]	80 Shore D	80 Shore D
Density[6]	0.188 lb/in^3	5.20 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2205

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4750 - 5050 Gs	475 - 505 mT
Coercive Force Hc	4100 - 4900 Oe	326 - 390 kA/m
Intrinsic Coercive Force Hci	11000 - 13600 Oe	875 - 1083kA/m
Maximum Energy Product (BH) max	4.75 - 6.05 MGOe	37.8 - 48.1 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

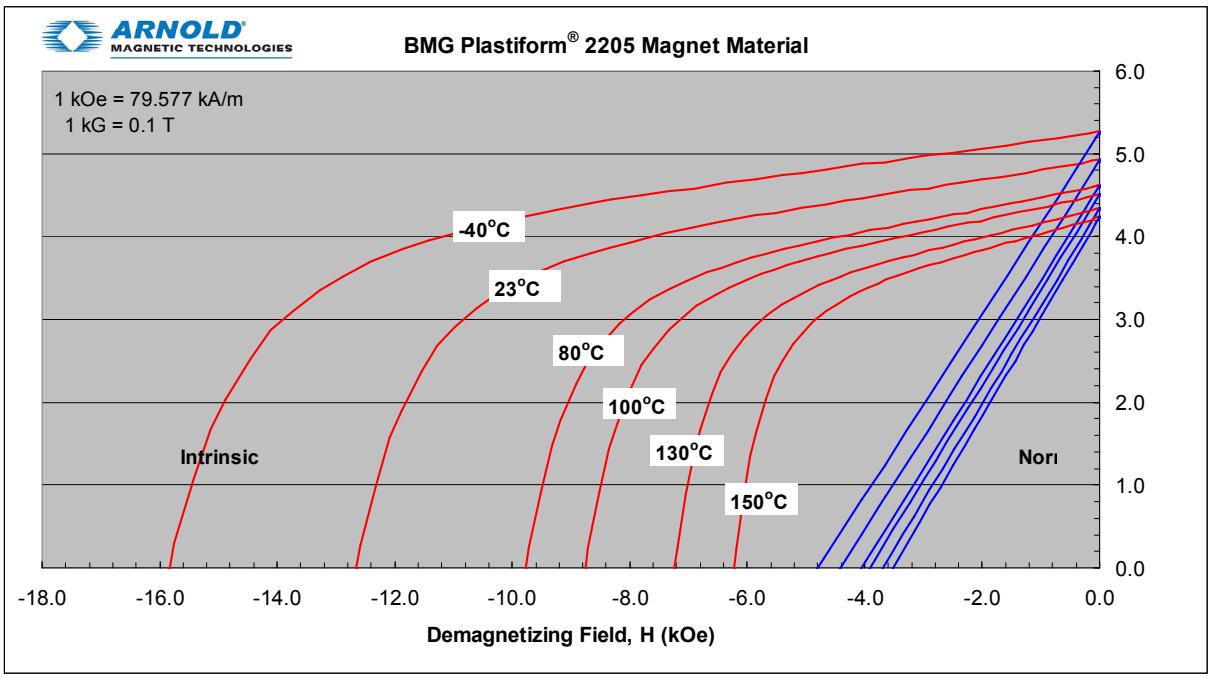
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	3915 psi	27.0 MPa
Elongation at Break[1]	< 1 %	< 1 %
Flexural Strength[2]	6090 psi	42.0 MPa
Flexural Modulus[2]	2610 ksi	18.0 GPa
IZOD Impact Strength[3]	5.5 kgf.cm/cm^2	5.5 kJ/m^2
Heat Deflection Temp.[4]	406 °F	208 °C
Hardness[5]	88 Shore D	88 Shore D
Density[6]	0.177 lb/in^3	4.90 g/cm^3
Maximum Operating Temperature	356 °F	180 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2206

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	3900 - 4400 Gs	390 - 440 mT
Coercive Force Hc	3400 - 4000 Oe	271 - 318 kA/m
Intrinsic Coercive Force Hci	8500 - 10500 Oe	676 - 836 kA/m
Maximum Energy Product (BH) max	3.34 - 4.26 MGOe	26.6 - 33.9 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

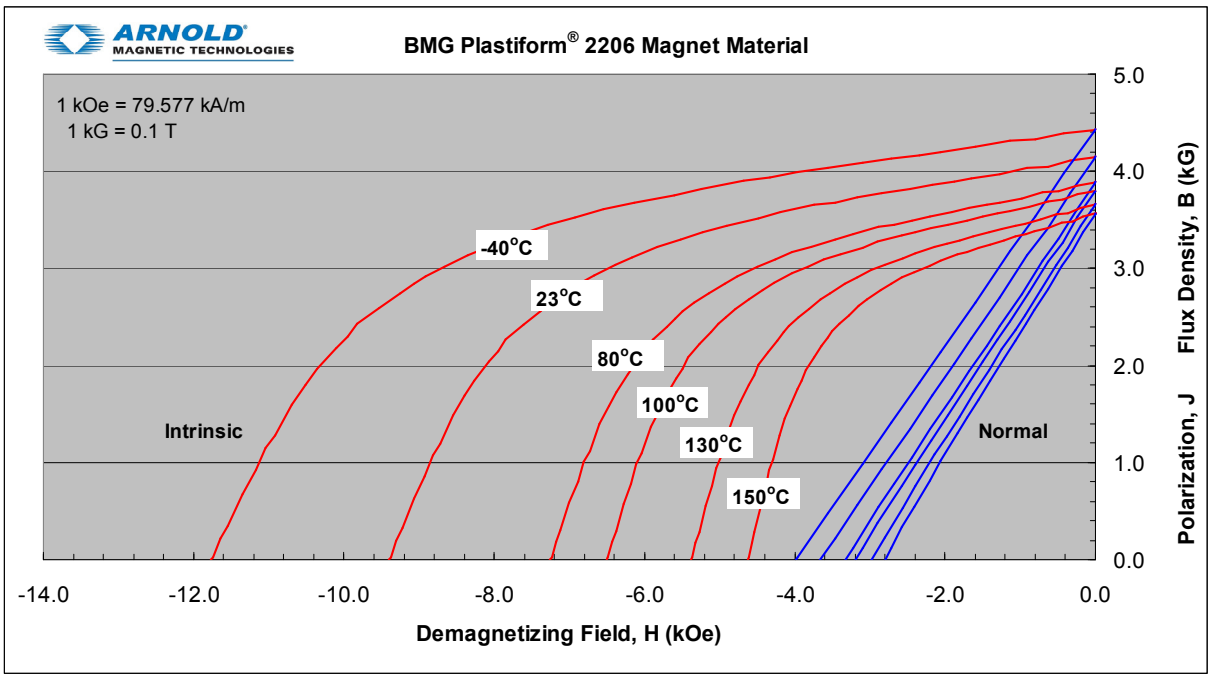
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	6235 psi	43.0 MPa
Elongation at Break[1]	< 1 %	< 1 %
Flexural Strength[2]	9135 psi	63.0 MPa
Flexural Modulus[2]	3335 ksi	23.0 GPa
IZOD Impact Strength[3]	40.0 $kgf.cm/cm^2$	40.0 kJ/m^2
Heat Deflection Temp.[4]	403 °F	206 °C
Hardness[5]	86 Shore D	86 Shore D
Density[6]	0.159 lb/in^3	4.40 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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ARNOLD MAGNETIC TECHNOLOGIES

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Plastiform® 2212

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	5200 - 5720 Gs	520 - 572 mT
Coercive Force Hc	3600 - 4320 Oe	286 - 344 kA/m
Intrinsic Coercive Force Hci	7500 - 9000 Oe	597 - 716 kA/m
Maximum Energy Product (BH)max	5.10 - 6.63 MGOe	40.6 - 52.8 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

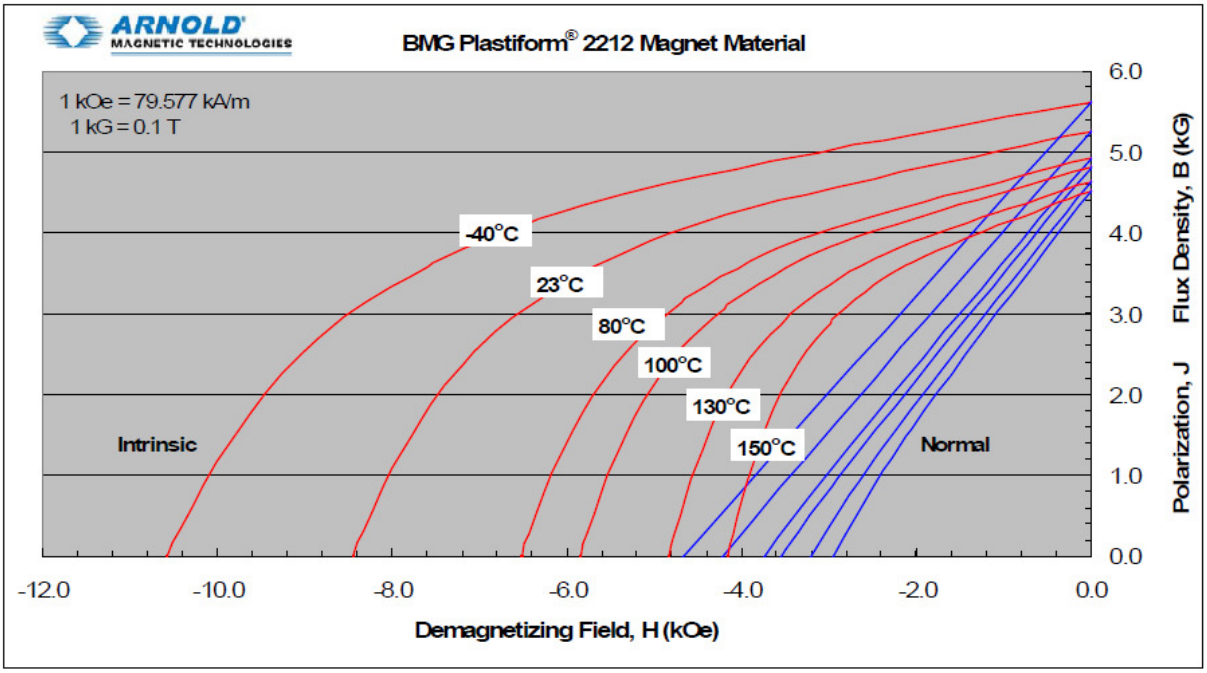
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	4785 psi	33.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	6960 psi	48.0 MPa
Flexural Modulus[2]	1305 ksi	9.0 GPa
IZOD Impact Strength[3]	12.0 kgf.cm/cm^2	12.0 kJ/m^2
Heat Deflection Temp.[4]	278 °F	137 °C
Hardness[5]	79 Shore D	79 Shore D
Density[6]	0.177 lb/in^3	4.90 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	5500 - 5890 Gs	550 - 589 mT
Coercive Force Hc	4000 - 5000 Oe	318 - 398 kA/m
Intrinsic Coercive Force Hci	8000 - 10000 Oe	637 - 796 kA/m
Maximum Energy Product (BH)max	5.72 - 7.44 MGOe	45.5 - 59.2 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

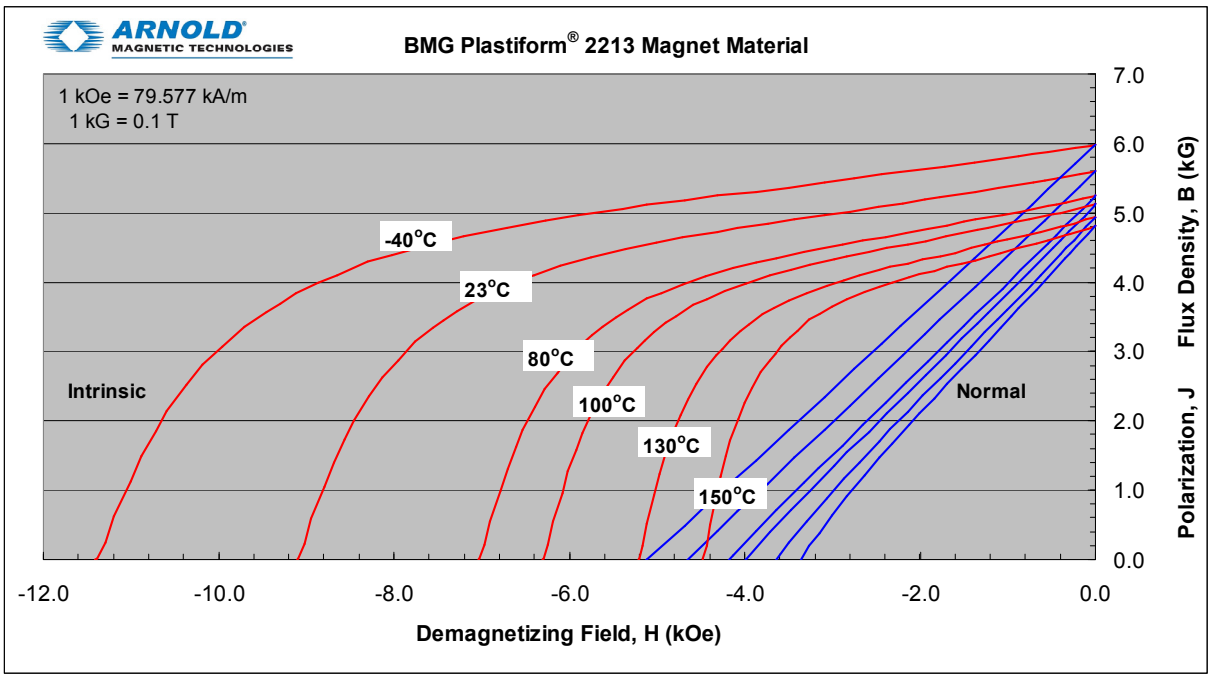
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	5075 psi	35.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	7105 psi	49.0 MPa
Flexural Modulus[2]	1595 ksi	11.0 GPa
IZOD Impact Strength[3]	9.0 kgf.cm/cm^2	9.0 kJ/m^2
Heat Deflection Temp.[4]	289 °F	143 °C
Hardness[5]	80 Shore D	80 Shore D
Density[6]	0.188 lb/in^3	5.20 g/cm^3
Maximum Operating Temperature	300 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2214

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4300 - 4800 Gs	430 - 480 mT
Coercive Force Hc	3500 - 4200 Oe	279 - 334 kA/m
Intrinsic Coercive Force Hci	8200 - 9840 Oe	653 - 783 kA/m
Maximum Energy Product (BH)max	4.28 - 5.56 MGOe	34.1 - 44.3 kJ/m^3
Reversible Temperature Coefficient of Br	-0.07% per °F	-0.13% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

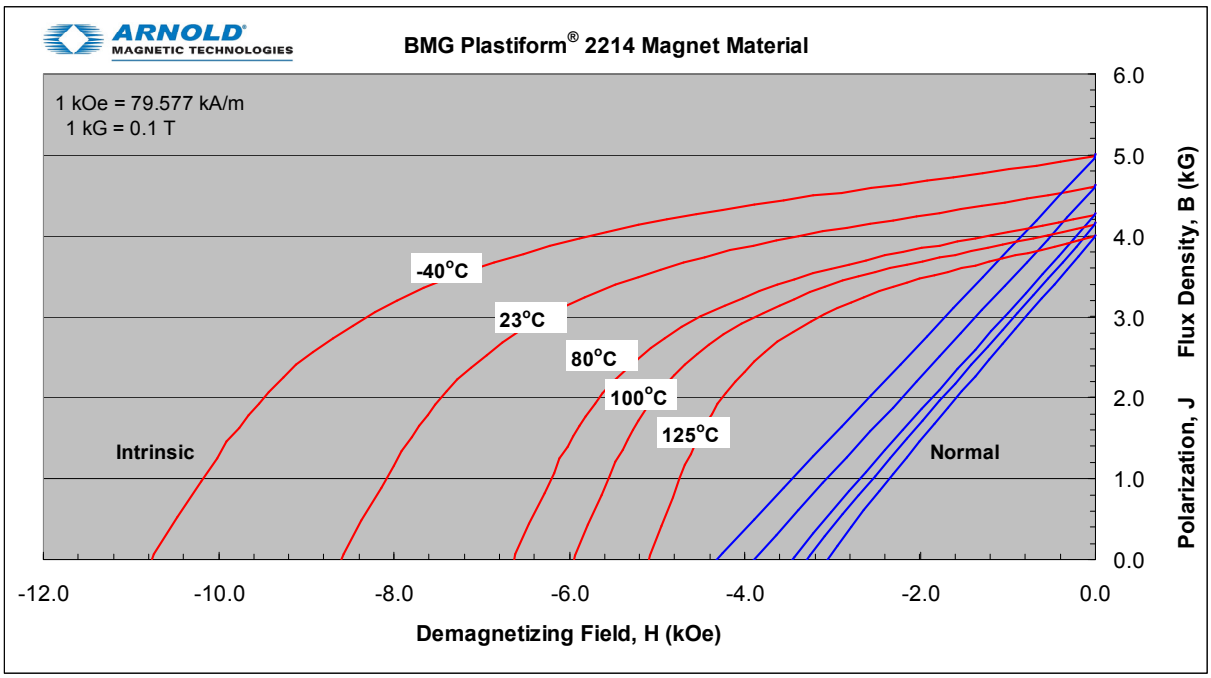
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	3770 psi	26.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	4495 psi	31.0 MPa
Flexural Modulus[2]	653 ksi	4.5 GPa
IZOD Impact Strength[3]	10.0 kgf.cm/cm^2	10.0 kJ/m^2
Heat Deflection Temp.[4]	288 °F	142 °C
Hardness[5]	78 Shore D	78 Shore D
Density[6]	0.168 lb/in^3	4.65 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2216

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	5500 - 6110 Gs	550 - 611 mT
Coercive Force Hc	4000 - 4800 Oe	318 - 382 kA/m
Intrinsic Coercive Force Hci	7000 - 9000 Oe	557 - 716 kA/m
Maximum Energy Product (BH)max	5.10 - 6.63 MGOe	40.6 - 52.8 kJ/m^3
Reversible Temperature Coefficient of Br	-0.07% per °F	-0.13% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

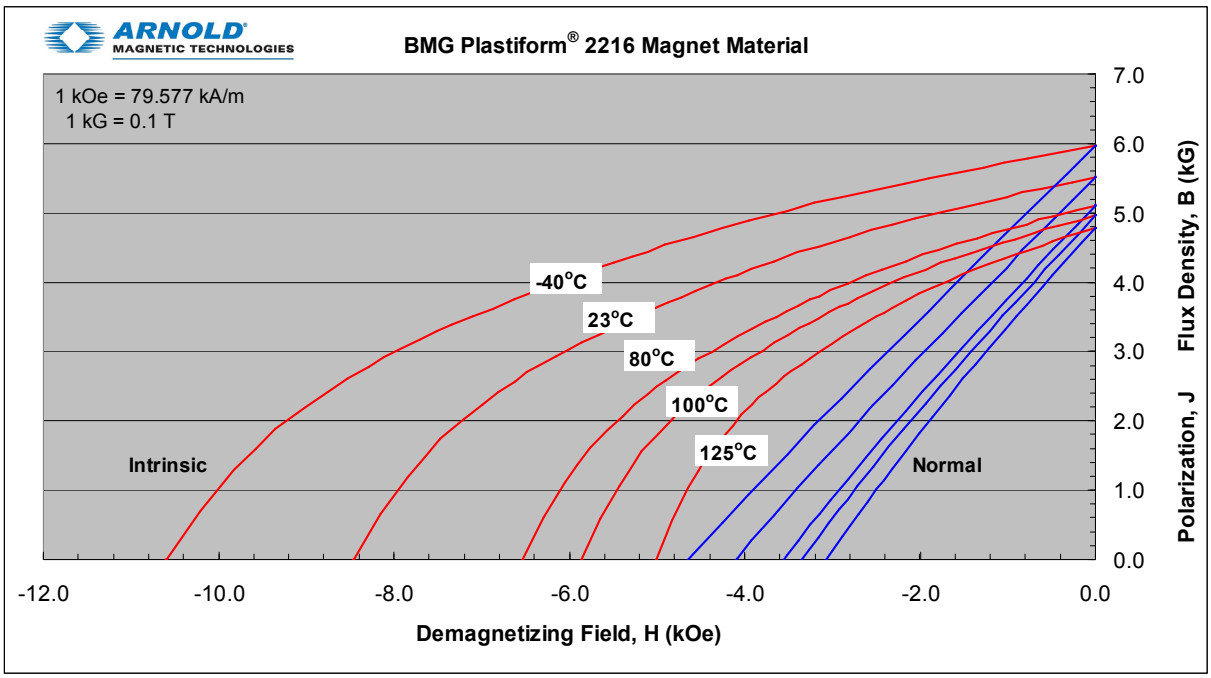
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	5365 psi	37.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	7685 psi	53.0 MPa
Flexural Modulus[2]	1595 ksi	11.0 GPa
IZOD Impact Strength[3]	12.0 kgf.cm/cm^2	12.0 kJ/m^2
Heat Deflection Temp.[4]	299 °F	148 °C
Hardness[5]	80 Shore D	80 Shore D
Density[6]	0.186 lb/in^3	5.16 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2217

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4500 - 4820 Gs	450 - 482 mT
Coercive Force Hc	4000 - 4800 Oe	318 - 382 kA/m
Intrinsic Coercive Force Hci	15000 - 18000 Oe	1194 - 1432 kA/m
Maximum Energy Product (BH)max	3.98 - 5.17 MGOe	31.7 - 41.2 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

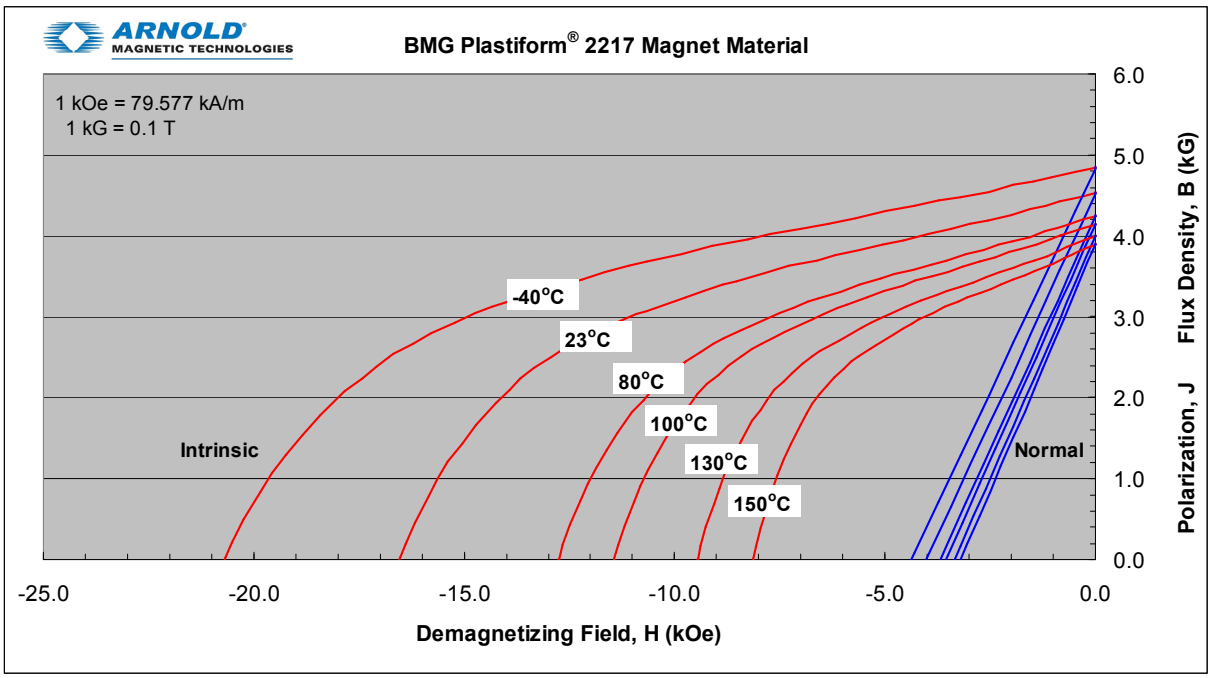
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	4060 psi	28.0 MPa
Elongation at Break[1]	< 1 %	< 1 %
Flexural Strength[2]	6960 psi	48.0 MPa
Flexural Modulus[2]	3190 ksi	22.0 GPa
IZOD Impact Strength[3]	5.5 kgf.cm/cm^2	5.5 kJ/m^2
Heat Deflection Temp.[4]	444 °F	229 °C
Hardness[5]	88 Shore D	88 Shore D
Density[6]	0.177 lb/in^3	4.90 g/cm^3
Maximum Operating Temperature	356 °F	180 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2218

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	5500 - 5890 Gs	550 - 589 mT
Coercive Force Hc	4000 - 4800 Oe	318 - 382 kA/m
Intrinsic Coercive Force Hci	8000 - 9600 Oe	637 - 764 kA/m
Maximum Energy Product (BH)max	5.72 - 7.44 MGOe	45.5 - 59.2 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

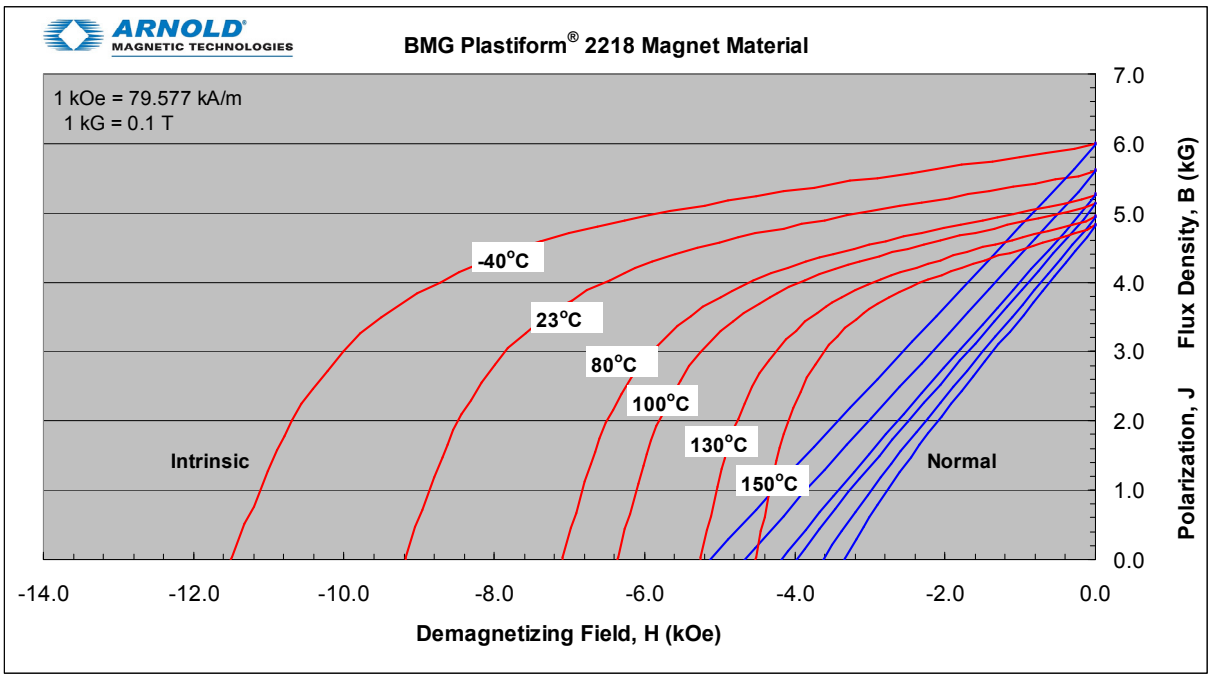
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	5365 psi	37.0 MPa
Elongation at Break[1]	< 1.5 %	< 1.5 %
Flexural Strength[2]	7540 psi	52.0 MPa
Flexural Modulus[2]	1595 ksi	11.0 GPa
IZOD Impact Strength[3]	10.0 kgf.cm/cm^2	10.0 kJ/m^2
Heat Deflection Temp.[4]	289 °F	143 °C
Hardness[5]	80 Shore D	80 Shore D
Density[6]	0.188 lb/in^3	5.20 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2225

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	6300 - 6800 Gs	630 - 680 mT
Coercive Force Hc	4800 - 5800 Oe	382 - 462 kA/m
Intrinsic Coercive Force Hci	8800 - 10200 Oe	700 - 812 kA/m
Maximum Energy Product (BH) max	8.50- 9.40 MGOe	67.6- 74.8 kJ/m^3
Reversible Temperature Coefficient of Br	-0.07% per °F	-0.13% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

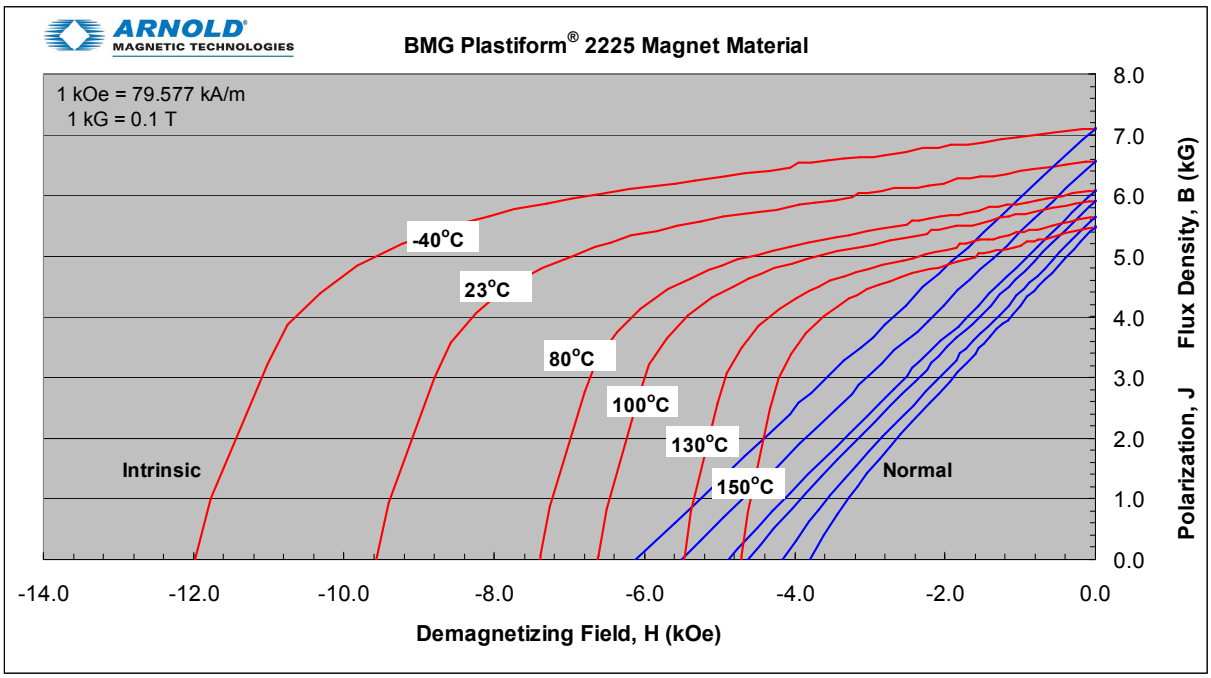
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	6235 psi	43.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	11600 psi	80.0 MPa
Flexural Modulus[2]	2320 ksi	16.0 GPa
IZOD Impact Strength[3]	34.0 kgf.cm/cm^2	34.0 kJ/m^2
Heat Deflection Temp.[4]	293 °F	145 °C
Hardness[5]	81 Shore D	81 Shore D
Density[6]	0.206 lb/in^3	5.70 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2226

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4900 - 5400 Gs	490 - 540 mT
Coercive Force Hc	4000 - 5000 Oe	318 - 398 kA/m
Intrinsic Coercive Force Hci	8000 - 10000 Oe	637 – 796 kA/m
Maximum Energy Product (BH) max	5.02 - 6.38 MGOe	39.9 - 50.8 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

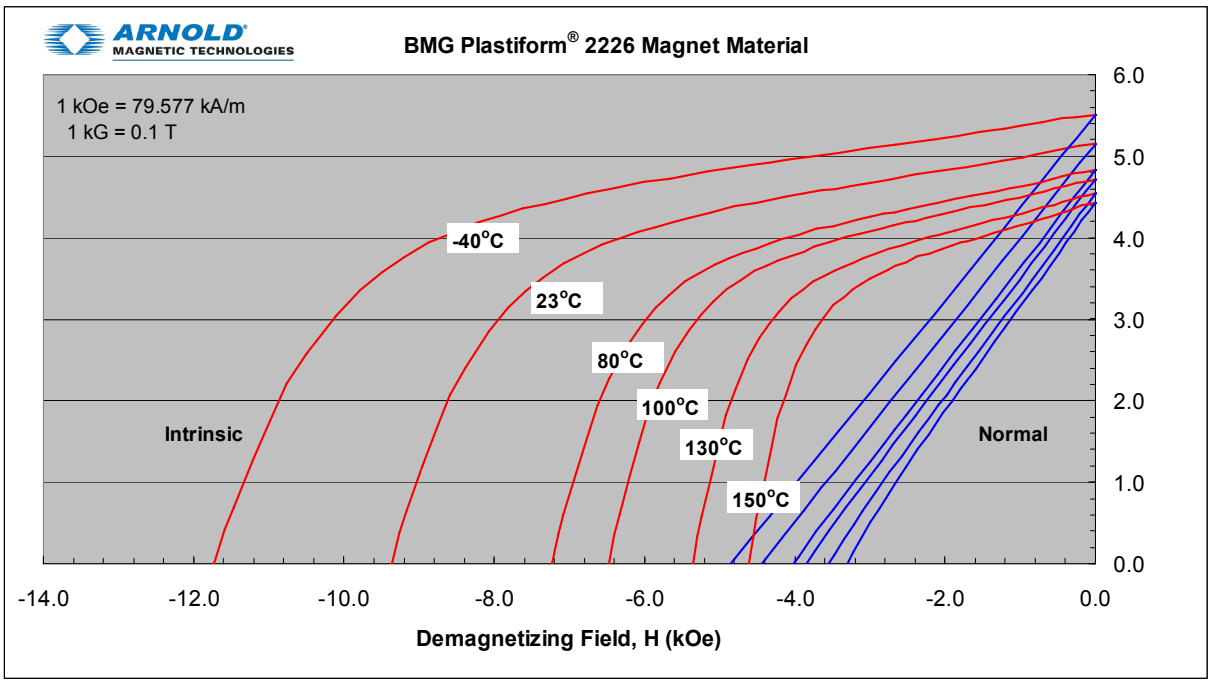
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	4205 psi	29.0 MPa
Elongation at Break[1]	< 1 %	< 1 %
Flexural Strength[2]	6960 psi	48.0 MPa
Flexural Modulus[2]	2900 ksi	20.0 GPa
IZOD Impact Strength[3]	5.0 kgf.cm/cm^2	5.0 kJ/m^2
Heat Deflection Temp.[4]	440 °F	227 °C
Hardness[5]	87 Shore D	87 Shore D
Density[6]	0.183 lb/in^3	5.05 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2227

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, Isotropic NdFeB magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4150-4550 Gs	415-455 mT
Coercive Force Hc	3400-4100 Oe	271-326 kA/m
Intrinsic Coercive Force Hci	7500-9500 Oe	597-756 kA/m
Maximum Energy Product (BH)max	3.65-4.65 MGOe	29.0-37.0 kJ/m^3
Reversible Temperature Coefficient of Br	-0.06% per °F	-0.11% per °C
Reversible Temperature Coefficient of Hci	-0.22% per °F	-0.40% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

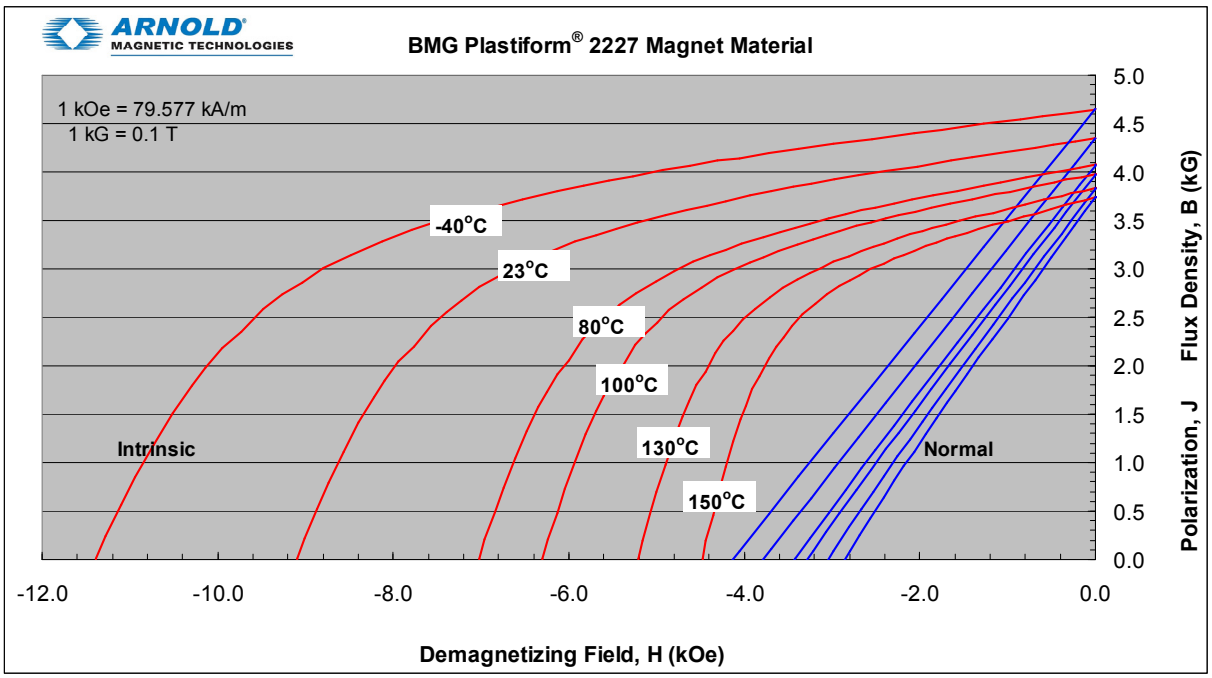
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	5510 psi	38.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	8265 psi	57.0 MPa
Flexural Modulus[2]	1088 ksi	7.5 GPa
IZOD Impact Strength[3]	18.0 kgf.cm/cm^2	18.0 kJ/m^2
Heat Deflection Temp.[4]	273 °F	134 °C
Hardness[5]	79 Shore D	79 Shore D
Density[6]	0.151 lb/in^3	4.18 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, oriented Sr-Ba Ferrite and NdFeB hybrid magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4200 - 4620 Gs	420 - 462 mT
Coercive Force Hc	2400 - 2880 Oe	191 - 229 kA/m
Intrinsic Coercive Force Hci	3600 - 4320 Oe	286 - 344 kA/m
Maximum Energy Product (BH) max	2.64 - 3.43 MGOe	21.0 - 27.3 kJ/m^3
Reversible Temperature Coefficient of Br	-0.08% per °F	-0.14% per °C
Reversible Temperature Coefficient of Hci	-0.19% per °F	-0.34% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

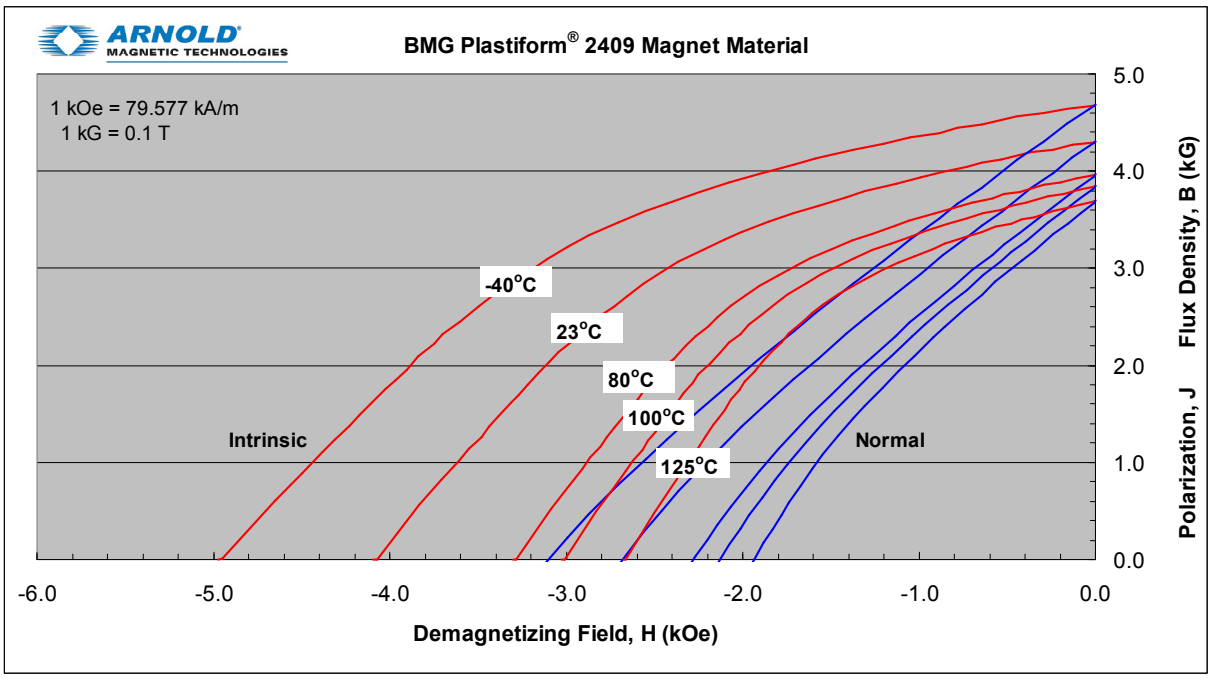
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	4495 psi	31.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	6960 psi	48.0 MPa
Flexural Modulus[2]	943 ksi	6.5 GPa
IZOD Impact Strength[3]	11.0 kgf.cm/cm^2	11.0 kJ/m^2
Heat Deflection Temp.[4]	205 °F	96 °C
Hardness[5]	77 Shore D	77 Shore D
Density[6]	0.150 lb/in^3	4.18 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, oriented Sr-Ba Ferrite and NdFeB hybrid magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4700 - 5200 Gs	470 - 520 mT
Coercive Force Hc	2160 - 2640 Oe	172 - 210 kA/m
Intrinsic Coercive Force Hci	3600 - 4400 Oe	286 - 350 kA/m
Maximum Energy Product (BH) max	3.67 - 4.77 MGOe	29.2 - 38.0 kJ/m^3
Reversible Temperature Coefficient of Br	-0.08% per °F	-0.14% per °C
Reversible Temperature Coefficient of Hci	-0.19% per °F	-0.34% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

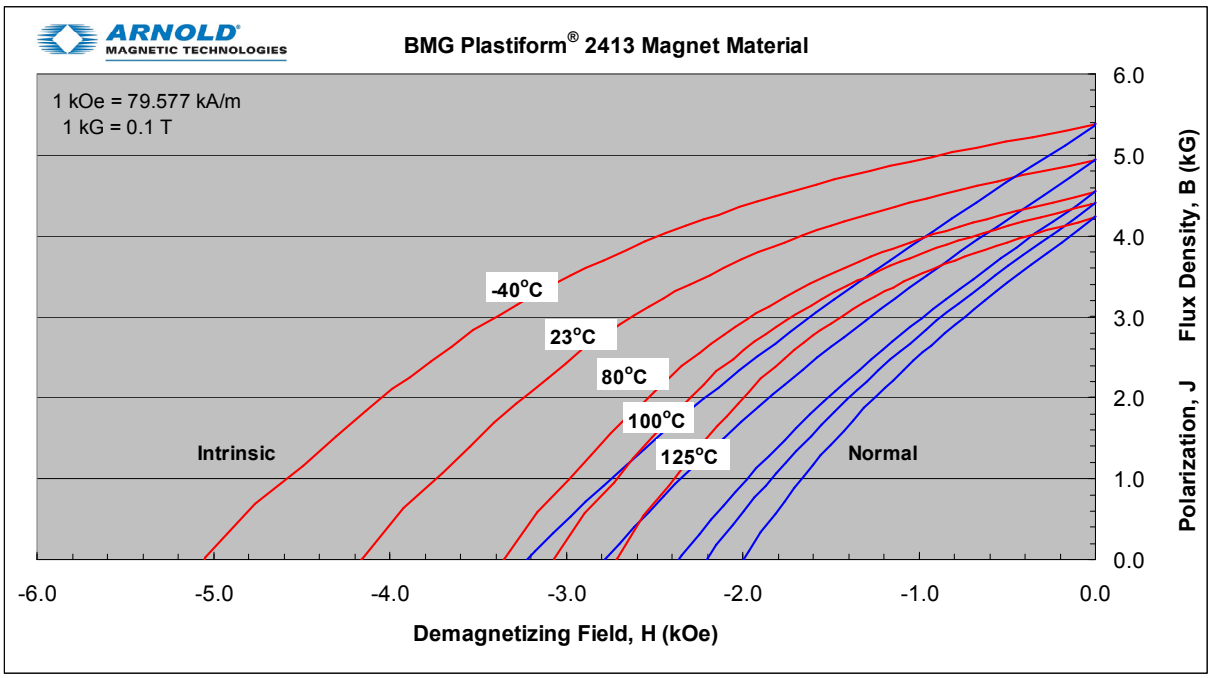
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	2755 psi	19.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	3915 psi	27.0 MPa
Flexural Modulus[2]	435 ksi	3.0 GPa
IZOD Impact Strength[3]	9.0 kgf.cm/cm^2	9.0 kJ/m^2
Heat Deflection Temp.[4]	205 °F	96 °C
Hardness[5]	76 Shore D	76 Shore D
Density[6]	0.171 lb/in^3	4.72 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2414

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, oriented Sr-Ba Ferrite and NdFeB hybrid magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	4800 - 5100 Gs	480 - 510 mT
Coercive Force Hc	3400 - 4100 Oe	271 - 326 kA/m
Intrinsic Coercive Force Hci	7400 - 9100 Oe	589 - 724 kA/m
Maximum Energy Product (BH) max	4.58 – 5.95 MGOe	36.5- 47.4kJ/m^3
Reversible Temperature Coefficient of Br	-0.08% per °F	-0.14% per °C
Reversible Temperature Coefficient of Hci	-0.19% per °F	-0.34% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

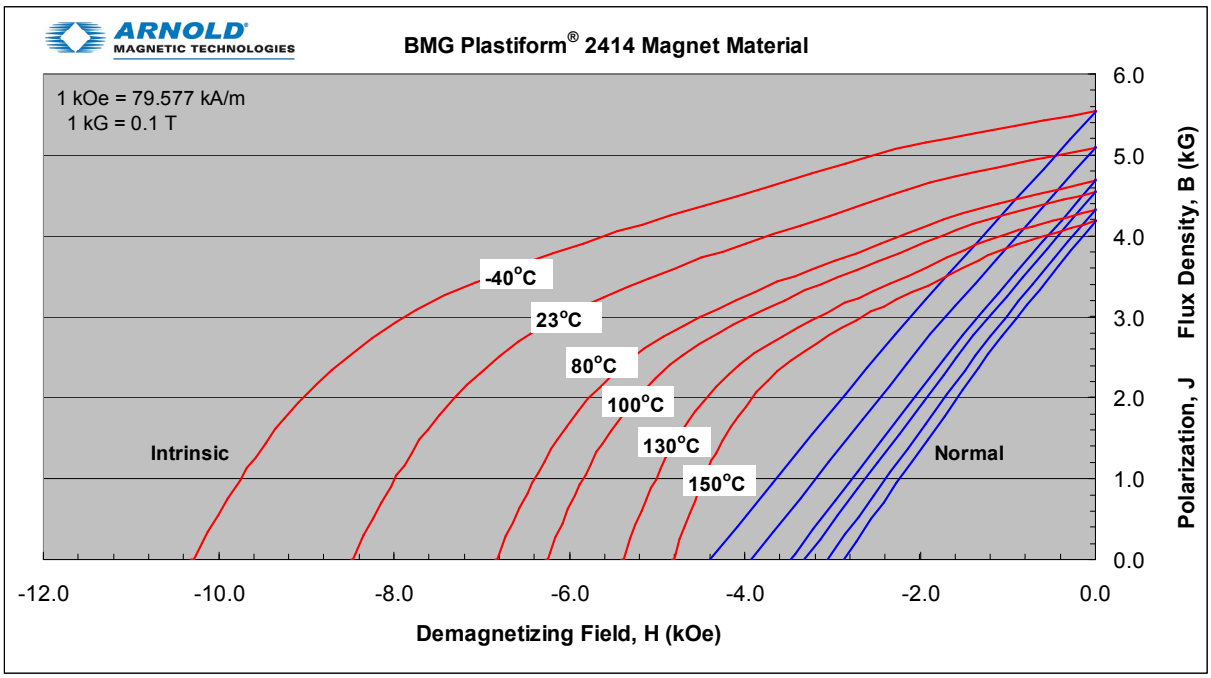
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	6380 psi	44.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	9280 psi	64.0 MPa
Flexural Modulus[2]	1740 ksi	12.0 GPa
IZOD Impact Strength[3]	12.0 kgf.cm/cm^2	12.0 kJ/m^2
Heat Deflection Temp.[4]	298 °F	148 °C
Hardness[5]	80 Shore D	80 Shore D
Density[6]	0.175 lb/in^3	4.85 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2415

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, oriented Sr-Ba Ferrite and NdFeB hybrid magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	3600 - 3870 Gs	360 - 387 mT
Coercive Force Hc	2360 - 2830 Oe	188 - 225 kA/m
Intrinsic Coercive Force Hci	3520 - 4220 Oe	280 - 336 kA/m
Maximum Energy Product (BH) max	2.33 – 3.03 MGOe	18.5- 24.1kJ/m^3
Reversible Temperature Coefficient of Br	-0.08% per °F	-0.14% per °C
Reversible Temperature Coefficient of Hci	-0.19% per °F	-0.34% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

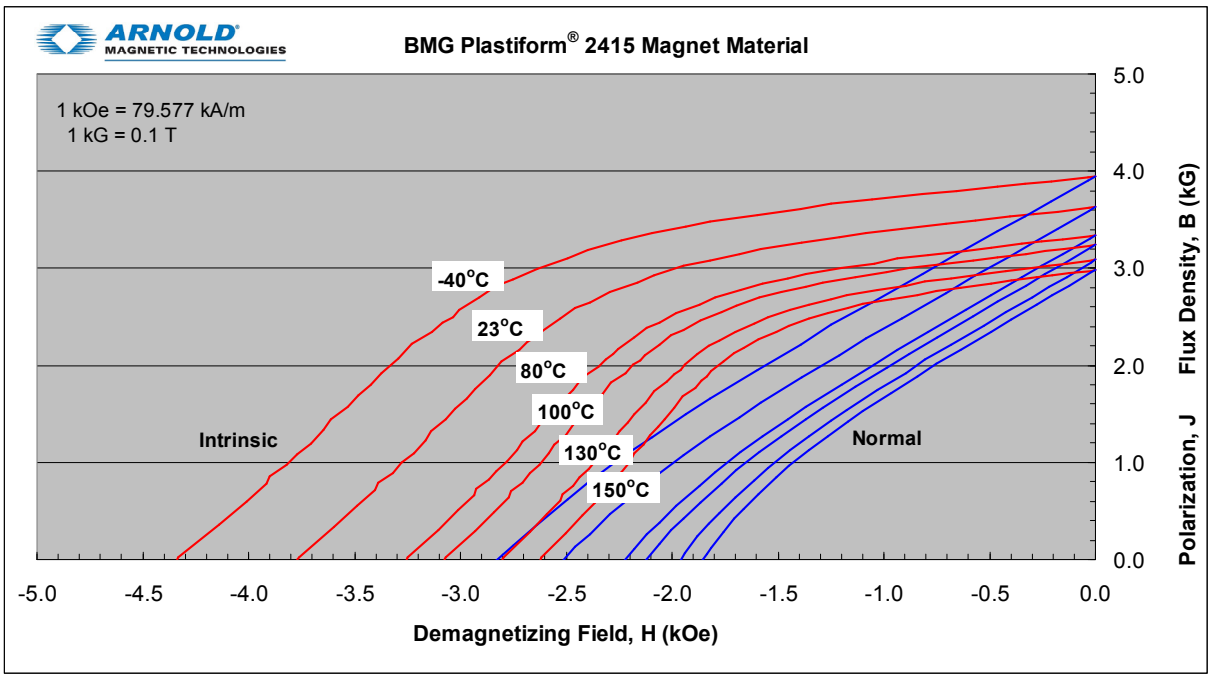
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	6670 psi	46.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	10585 psi	73.0 MPa
Flexural Modulus[2]	1262 ksi	8.7 GPa
IZOD Impact Strength[3]	16.0 kgf.cm/cm^2	16.0 kJ/m^2
Heat Deflection Temp.[4]	244 °F	118 °C
Hardness[5]	82 Shore D	82 Shore D
Density[6]	0.145 lb/in^3	4.00 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2416

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, oriented Sr-Ba Ferrite and NdFeB hybrid magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	5100 - 5400 Gs	510 - 540 mT
Coercive Force Hc	3570 - 4310 Oe	284 - 343 kA/m
Intrinsic Coercive Force Hci	7900 - 9400 Oe	629 - 748 kA/m
Maximum Energy Product (BH) max	4.85 - 6.31 MGOe	38.6- 50.2 kJ/m^3
Reversible Temperature Coefficient of Br	-0.08% per °F	-0.14% per °C
Reversible Temperature Coefficient of Hci	-0.19% per °F	-0.34% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

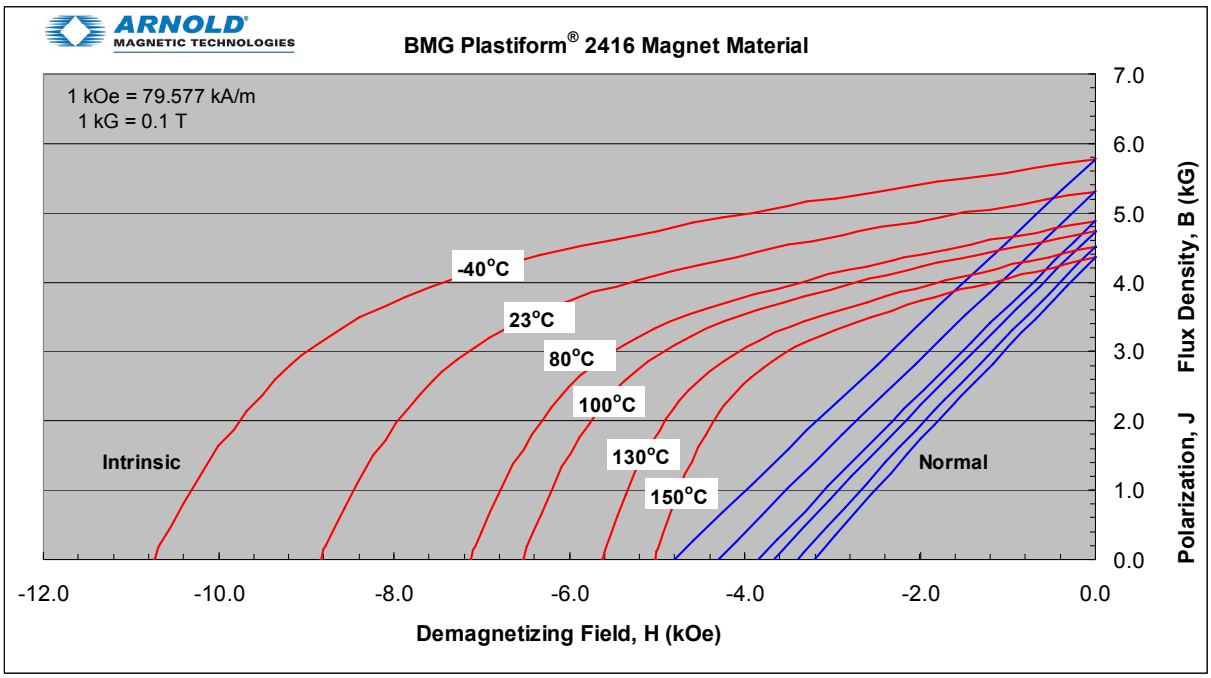
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	6815 psi	47.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	10585 psi	73.0 MPa
Flexural Modulus[2]	2030 ksi	14.0 GPa
IZOD Impact Strength[3]	13.0 kgf.cm/cm^2	13.0 kJ/m^2
Heat Deflection Temp.[4]	304 °F	151 °C
Hardness[5]	80 Shore D	80 Shore D
Density[6]	0.180 lb/in^3	4.97 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2418

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, oriented Sr-Ferrite and NdFeB hybrid magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	3900 - 4300 Gs	390 - 430 mT
Coercive Force Hc	2400 - 2900 Oe	191 - 230 kA/m
Intrinsic Coercive Force Hci	3600 - 4400 Oe	286 – 350 kA/m
Maximum Energy Product (BH) max	2.60 – 3.40 MGOe	20.7 – 27.0 kJ/m^3
Reversible Temperature Coefficient of Br	-0.08% per °F	-0.14% per °C
Reversible Temperature Coefficient of Hci	-0.19% per °F	-0.34% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

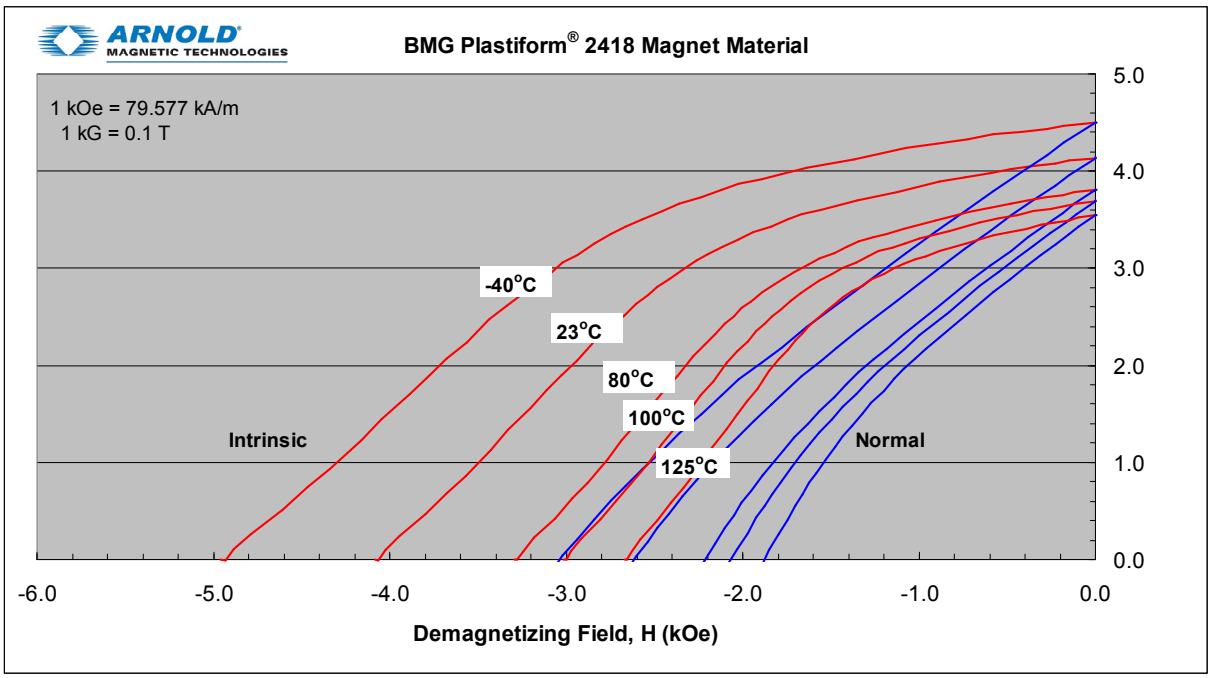
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	4495 psi	31.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	6960 psi	48.0 MPa
Flexural Modulus[2]	943 ksi	6.5 GPa
IZOD Impact Strength[3]	11.0 kgf.cm/cm^2	11.0 kJ/m^2
Heat Deflection Temp.[4]	205 °F	96 °C
Hardness[5]	76 Shore D	76 Shore D
Density[6]	0.148 lb/in^3	4.10 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2521

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2550 - 2810 Gs	255 - 281 mT
Coercive Force Hc	2280 - 2680 Oe	182 - 213 kA/m
Intrinsic Coercive Force Hci	3360 - 4020 Oe	267 - 320 kA/m
Maximum Energy Product (BH)max	1.61 - 2.05 MGOe	12.8 - 16.3 kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20% per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

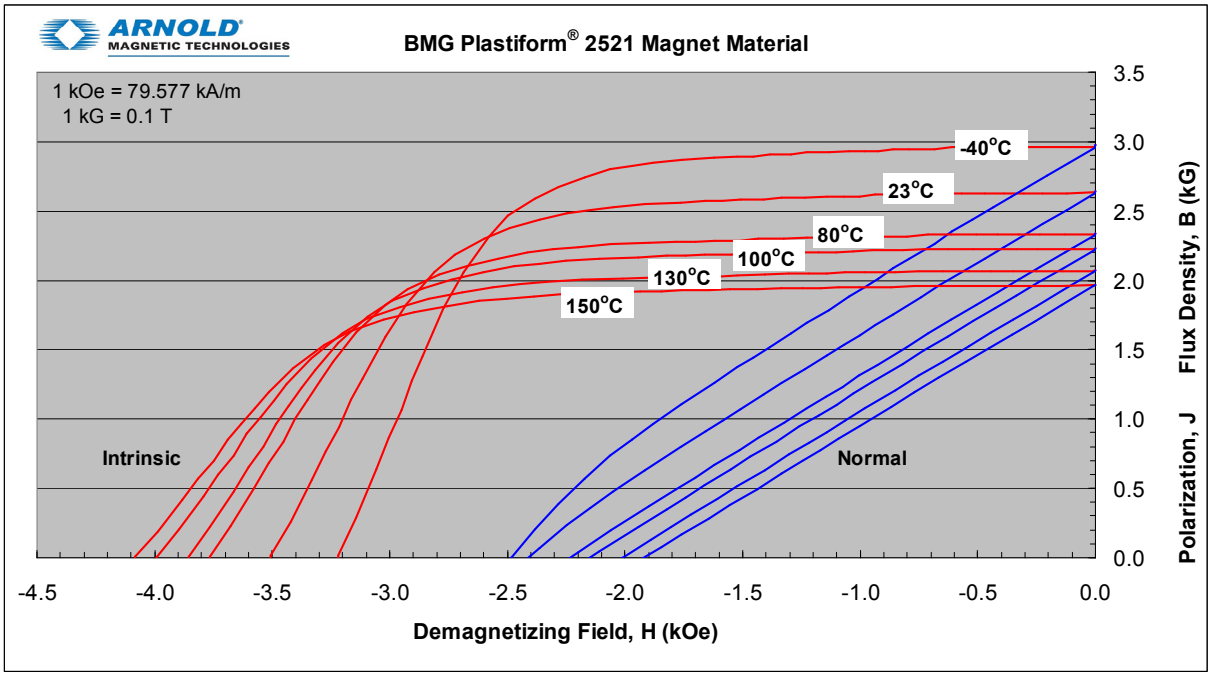
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	6090 psi	42.0 MPa
Elongation at Break[1]	< 2%	< 2%
Flexural Strength[2]	11020 psi	76.0 MPa
Flexural Modulus[2]	1450 ksi	10.0 GPa
IZOD Impact Strength[3]	12.0 kgf.cm/cm^2	12.0 kJ/m^2
Heat Deflection Temp.[4]	273 °F	134 °C
Hardness[5]	85 Shore D	85 Shore D
Density[6]	0.129 lb/in^3	3.56 g/cm^3
Maximum Operating Temperature	302 °F	150 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2534

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2480 - 2730 Gs	248 - 273 mT
Coercive Force Hc	1900 - 2250 Oe	151 - 179 kA/m
Intrinsic Coercive Force Hci	2700 - 3300 Oe	215 - 263 kA/m
Maximum Energy Product (BH) max	1.45 - 1.89 MGOe	11.5 - 15.0kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20 % per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

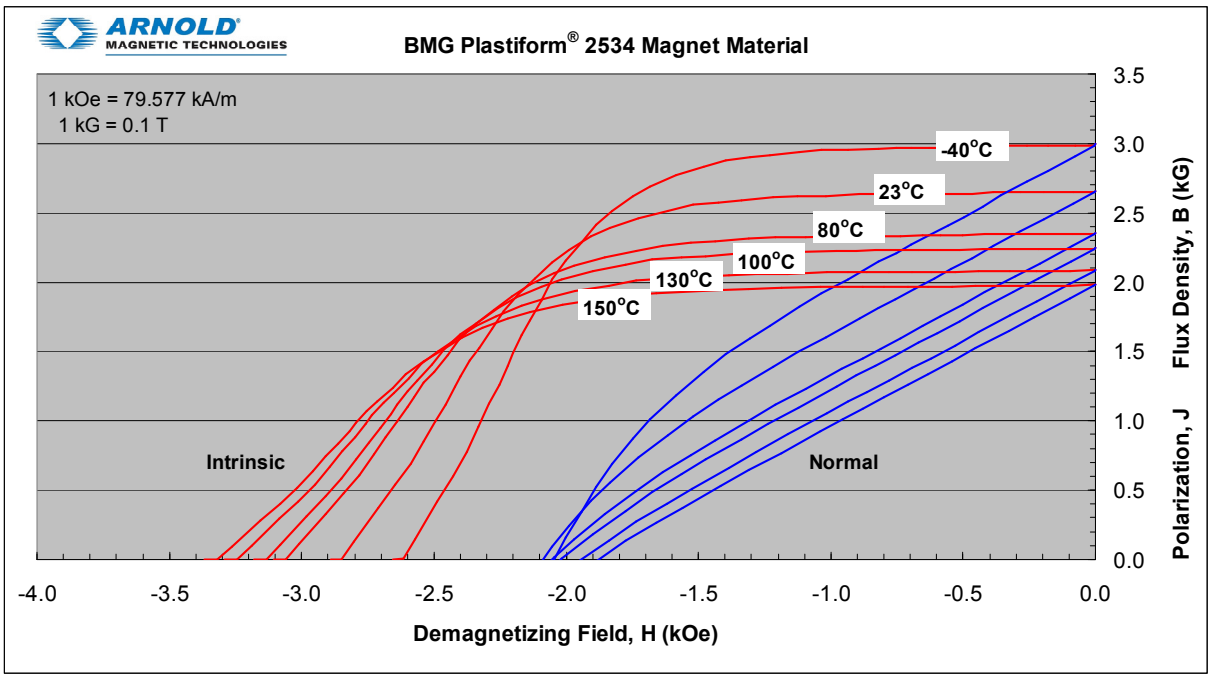
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	9,280 psi	64.0 MPa
Elongation at Break[1]	< 2 %	< 2 %
Flexural Strength[2]	15,225 psi	105 MPa
Flexural Modulus[2]	1885 ksi	13.0 GPa
IZOD Impact Strength[3]	16.0 kgf.cm/cm^2	16.0 kJ/m^2
Heat Deflection Temp.[4]	322 °F	161 °C
Hardness[5]	88 Shore D	88 Shore D
Density[6]	0.128 lb/in^3	3.53 g/cm^3
Maximum Operating Temperature	320 °F	160 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2535

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2630 - 2740 Gs	263 - 274 mT
Coercive Force Hc	2250 - 2650 Oe	179 - 211 kA/m
Intrinsic Coercive Force Hci	3400 - 4000 Oe	271 - 318 kA/m
Maximum Energy Product (BH) max	1.54 - 1.96 MGOe	12.3 - 15.6kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20 % per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

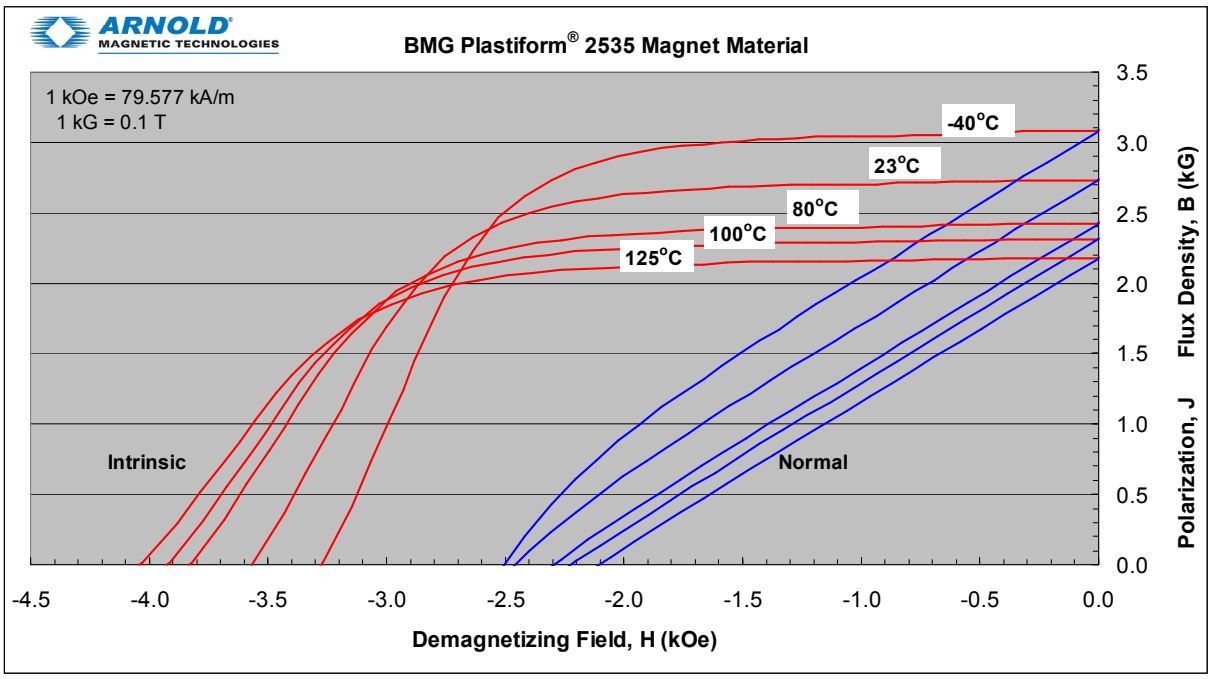
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	3045 psi	21.0 MPa
Elongation at Break[1]	< 3 %	< 3 %
Flexural Strength[2]	4930 psi	34.0 MPa
Flexural Modulus[2]	290 ksi	2.0 GPa
IZOD Impact Strength[3]	17.0 kgf.cm/cm^2	17.0 kJ/m^2
Heat Deflection Temp.[4]	142 °F	61 °C
Hardness[5]	75 Shore D	75 Shore D
Density[6]	0.132 lb/in^3	3.65 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Plastiform® 2560

Bonded Magnet and Magnetic Assemblies Group (BMG)

PRODUCT DESCRIPTION: Polymer bonded, anisotropic Sr-Ba Ferrite magnet for injection molding.Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

	CGS	SI
Residual Induction Br	2570 - 2840 Gs	257 - 284 mT
Coercive Force Hc	2250 - 2650 Oe	179 - 211 kA/m
Intrinsic Coercive Force Hci	3400 - 4000 Oe	271 - 318 kA/m
Maximum Energy Product (BH) max	1.54 - 1.96 MGOe	12.3 - 15.6kJ/m^3
Reversible Temperature Coefficient of Br	-0.11% per °F	-0.20 % per °C
Reversible Temperature Coefficient of Hci	0.07% per °F	0.13% per °C
Peak Magnetizing Force Required	10,000 Oe	800 kA/m

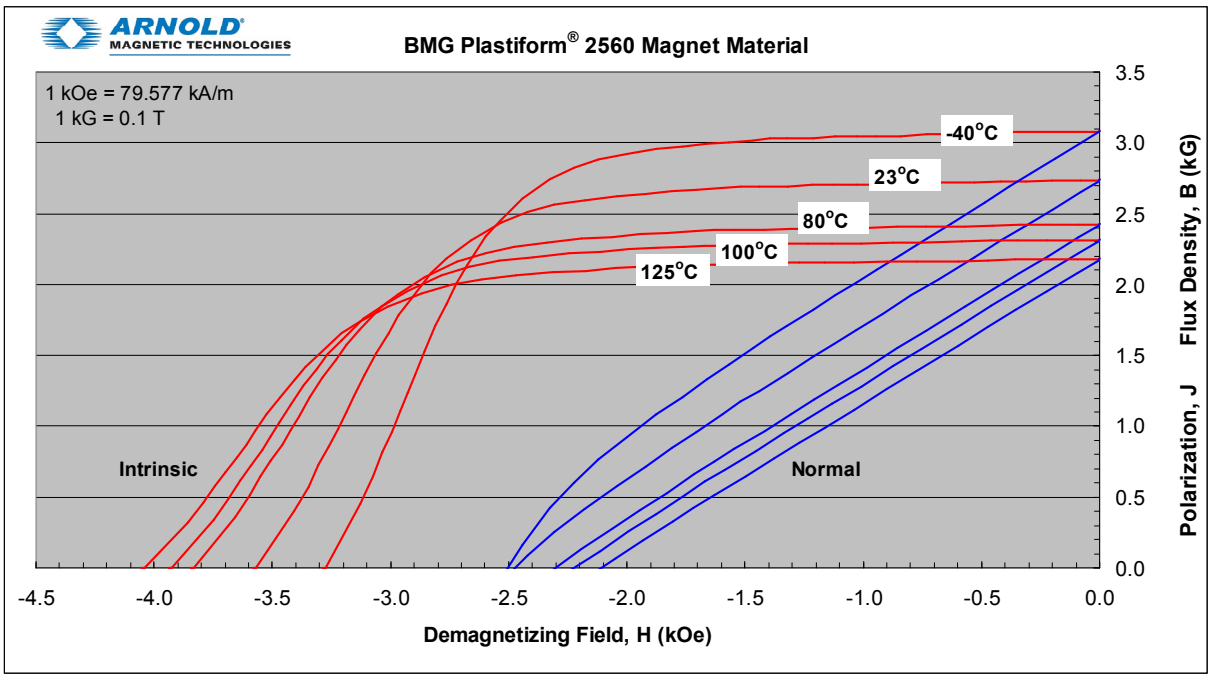
TYPICAL PHYSICAL PROPERTIES @ 23°C (73°F)

Tensile Strength[1]	2755 psi	19.0 MPa
Elongation at Break[1]	< 3 %	< 3 %
Flexural Strength[2]	4060 psi	28.0 MPa
Flexural Modulus[2]	145 ksi	1.0 GPa
IZOD Impact Strength[3]	18.0 kgf.cm/cm^2	18.0 kJ/m^2
Heat Deflection Temp.[4]	120 °F	49 °C
Hardness[5]	74 Shore D	74 Shore D
Density[6]	0.132 lb/in^3	3.65 g/cm^3
Maximum Operating Temperature	257 °F	125 °C

（*Reference only, not intended for specification purpose）

Referenced Test Methods

[1]ASTM D-638 [2]ASTM D-790 [3]ASTM D-256 [4]ASTM D-648 [5]ASTM D-2240 [6]ASTM D-792



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Arnold Magnetics (Shenzhen) Ltd

Request for Quotation

For 24-hour turn-around on quotations:*

MAIL TO:	*FAX TO:*
Bonded Magnet and Magnet Assemblies **Arnold Magnetics (Shenzhen) Limited** 15# Dayang 1st Road, Yulu, Gongming District, Shenzhen, Guangdong Province, China. Post Code: 518132 Tel: +86-755-81729700	**+86-755-29905087** *E-Mail To:* Info-BMG@arnoldmagnetics.com
Or to: Arnold US Customer Service **Flexmag Industries, Inc.** 1000 Magnet Dr., Norfolk, NE 68701	Toll Free: 1-800-593-9127 Tel: (402) 371-6100 Email: info@arnoldmagnetics.com
Company:	Inquiry No.:
Address:	Reply Requested By:
	■ Fax ■ Phone ■ Mail ■ E-mail
Phone No.: Fax No.:	Arnold Part No.:
E-mail:	Material:
Reply To:	Magnetized:
Application and General Information:	Direction of Orientation:
	Delivery Requested:
	Quantity/Estimated Annual Usage:

Print or sketch — Please include description: all dimensions and tolerances; material; magnetic requirements and material grade required; type of coating and color.

** For the quote with clear RFQ and no technical specification clarification needed,*

ARNOLD MAGNETIC TECHNOLOGIES

Arnold Magnetics (Shenzhen) Ltd

Arnold Bonded Plastiform® Magnet Materials

Oct.2014

Material	Magnetic Powder	Polymer	Density in g/cc	Residual Induction Br in Gauss		Coercivity Hc in Oersteds		Int. Coercivity Hci in Oersteds		Energy Product (BH)max in MGOe		Rev. Temp Coeff of Br	Rev. Temp Coeff of Hci	Relative Recoil Permeability μ_{rec}	Max Appl. Temperature
			Reference	Min.	Max.	Min.	Max.	Min.	Max	Min.	Max.	%/°C	%/°C		°C
2039	SrFerrite	Nylon 6	3.80	2,770	3,070	2,190	2,570	2,610	3,070	1.85	2.35	-0.20	0.13	1.05-1.10	160
2040	SrFerrite	Nylon 12	3.75	2,760	3,060	2,160	2,540	2,670	3,190	1.84	2.34	-0.20	0.13	1.05-1.10	150
2048	SrFerrite	Nylon 6	3.55	2,620	2,880	2,130	2,510	2,730	3,210	1.57	1.99	-0.20	0.13	1.05-1.10	160
2049	SrFerrite	Nylon 12	3.21	2,220	2,460	2,000	2,340	3,000	3,600	1.20	1.52	-0.20	0.13	1.05-1.10	150
2051	SrFerrite	Nylon 6	3.76	2,830	3,130	2,210	2,590	2,620	3,140	1.89	2.41	-0.20	0.13	1.05-1.10	160
2052	SrFerrite	PPS	3.65	2,560	2,880	2,150	2,530	2,780	3,320	1.58	2.05	-0.19	0.13	1.05-1.10	180
2054	SrFerrite	Nylon 6	3.15	2,080	2,300	1,960	2,310	3,310	3,890	1.07	1.36	-0.20	0.13	1.05-1.10	160
2055	SrFerrite	PPS	3.02	1,800	1,960	1,580	1,850	2,630	3,150	0.76	0.97	-0.19	0.13	1.05-1.10	180
2056	SrFerrite	Nylon 6	3.50	2,600	2,750	1,980	2,410	2,550	3,110	1.61	2.05	-0.20	0.13	1.05-1.10	160
2057	SrFerrite	PPS	3.40	2,200	2,440	1,690	2,150	2,520	3,200	1.14	1.45	-0.19	0.13	1.05-1.10	180
2058	SrFerrite	PPS	3.30	2,000	2,300	1,750	2,150	2,500	3,400	0.95	1.25	-0.19	0.13	1.05-1.10	180
2070	SrFerrite	Nylon 12	3.63	2,660	2,940	2,140	2,520	2,670	3,190	1.71	2.17	-0.20	0.13	1.05-1.10	150
2071	SrFerrite	Nylon 12	3.53	2,550	2,810	2,280	2,680	3,360	4,020	1.61	2.05	-0.20	0.13	1.05-1.10	150
2101	SmCo	Nylon 12	5.60	6,220	6,880	5,200	6,000	9,660	11,600	9.02	11.28	-0.035	-0.2	1.05-1.10	150
2103	SmCo	Nylon 6	5.50	5,800	6,380	5,000	6,000	16,000	28,000	7.48	9.72	-0.035	-0.2	1.05-1.10	160
2105	SmCo	Nylon 12	5.50	6,050	6,450	5,000	5,800	9,500	11,500	8.50	10.00	-0.035	-0.2	1.05-1.10	150
2202	NdFeB	Polyamide	4.85	5,100	5,700	4,000	5,000	7,500	10,000	5.00	6.50	-0.13	-0.4	1.13-1.22	125
2204	NdFeB	Nylon 12	5.20	4,900	5,390	4,100	4,920	11,000	13,200	4.57	5.94	-0.13	-0.4	1.13-1.22	150
2205	NdFeB	PPS	4.90	4,750	5,050	4,100	4,900	11,000	13,600	4.75	6.05	-0.11	-0.4	1.13-1.22	180
2206	NdFeB	PPS	4.40	3,900	4,400	3,400	4,000	8,500	10,500	3.34	4.26	-0.11	-0.4	1.13-1.22	150
2212	NdFeB	Nylon 12	4.90	5,200	5,720	4,000	5,000	7,500	9,000	5.10	6.63	-0.11	-0.4	1.13-1.22	150
2213	NdFeB	Nylon 12	5.20	5,500	5,890	4,000	5,000	8,000	10,000	5.72	7.44	-0.11	-0.4	1.13-1.22	150
2214	NdFeB	Nylon 12/Polyamide	4.65	4,300	4,800	3,500	4,200	8,200	9,840	4.28	5.56	-0.13	-0.4	1.13-1.22	125
2216	NdFeB	Nylon 12	5.16	5,500	6,110	4,000	4,800	7,000	9,000	5.10	6.63	-0.13	-0.4	1.13-1.22	125
2217	NdFeB	PPS	4.90	4,500	4,820	4,000	4,800	15,000	18,000	3.98	5.17	-0.11	-0.4	1.13-1.22	180
2218	NdFeB	Nylon 12	5.20	5,500	5,890	4,000	4,800	8,000	9,600	5.72	7.44	-0.11	-0.4	1.13-1.22	150
2225	NdFeB	Nylon 12	5.70	6,300	6,800	4,800	5,800	8,800	10,200	8.50	9.40	-0.13	-0.4	1.13-1.22	150
2226	NdFeB	PPS	5.05	4,900	5,400	4,000	5,000	8,000	10,000	5.02	6.38	-0.11	-0.4	1.13-1.22	150
2227	NdFeB	Nylon 12	4.18	4,150	4,550	3,400	4,100	7,500	9,500	3.65	4.65	-0.11	-0.4	1.13-1.22	150
2409	SrFerrite/NdFeB	Nylon 12/Polyamide	4.15	4,200	4,620	2,400	2,880	3,600	4,320	2.64	3.43	-0.14	-0.34	1.10-1.20	125
2413	SrFerrite/NdFeB	Nylon 12/Polyamide	4.72	4,700	5,200	2,160	2,640	3,600	4,400	3.67	4.77	-0.14	-0.34	1.10-1.20	125
2414	SrFerrite/NdFeB	Nylon 12	4.85	4,800	5,100	3,400	4,100	7,400	9,100	4.58	5.95	-0.14	-0.34	1.10-1.20	150
2415	SrFerrite/NdFeB	Nylon 12/Polyamide	4.00	3,600	3,870	2,360	2,830	3,520	4,220	2.33	3.03	-0.14	-0.34	1.10-1.20	125
2416	SrFerrite/NdFeB	Nylon 12	4.97	5,100	5,400	3,570	4,310	7,900	9,400	4.85	6.31	-0.14	-0.34	1.10-1.20	150
2418	SrFerrite/NdFeB	Nylon 12/Polyamide	4.10	3,900	4,300	2,400	2,900	3,600	4,400	2.60	3.40	-0.14	-0.34	1.10-1.20	125
2521	SrFerrite	Nylon 12	3.56	2,550	2,810	2,280	2,680	3,360	4,020	1.61	2.05	-0.20	0.13	1.05-1.10	150
2534	SrFerrite	Nylon 6	3.53	2,480	2,730	1,900	2,250	2,700	3,300	1.45	1.89	-0.20	0.13	1.05-1.10	160
2535	SrFerrite	Nylon12/Polyamide	3.65	2,630	2,740	2,250	2,650	3,400	4,000	1.54	1.96	-0.20	0.13	1.05-1.10	125
2560	SrFerrite	Polyamide	3.65	2,570	2,840	2,250	2,650	3,400	4,000	1.54	1.96	-0.20	0.13	1.05-1.10	125

All values shown in this brochure are typical and will vary depending upon part geometry.