

**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)**

**SI CGS**

Residual Induction Br	5200 - 5800 G	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 <sup>3</sup>
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	2500 psi	17.3 MPa
Elongation at Break	< 2%	< 2%
Hardness	85 Shore D	85 Shore D
Density	0.18 lb/in <sup>3</sup>	4.85 g/cm <sup>3</sup>
Maximum Operating Temperature	257 °F	125 °C

(\* Reference only, not intended for specification purpose.)

