

**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)**

**SI CGS**

Residual Induction Br	5800 - 6380 G	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 <sup>3</sup>
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	4000 psi	27.5 MPa
Elongation at Break	< 2%	< 2%
Hardness	78 Shore D	78 Shore D
Density	0.20 lb/in <sup>3</sup>	5.5 g/cm <sup>3</sup>
Maximum Operating Temperature	320 °F	160 °C

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

