

**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	5500 - 5890 G	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 <sup>3</sup>
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	4000 psi	27.5 MPa
Elongation at Break	< 1%	< 1%
Hardness	85 Shore D	85 Shore D
Density	0.19 lb/in <sup>3</sup>	5.2 g/cm <sup>3</sup>
Maximum Operating Temperature	300 °F	150 °C

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

