

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

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

