

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 - 6110 G | 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 | 2500 psi | 17.3 MPa |
| Elongation at Break | < 2% | < 2% |
| Hardness | 85 Shore D | 85 Shore D |
| Density | 0.19 lb/in ³ | 5.16 g/cm ³ |
| Maximum Operating Temperature | 257 °F | 125 °C |

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

