

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 | 6220 - 6880 G | 622 - 688 mT |
| Coercive Force Hc | 5200 - 6000 Oe | 414 - 477 kA/m |
| Intrinsic Coercive Force Hci | 9660 - 12550 Oe | 769 - 919 kA/m |
| Maximum Energy Product (BH)max | 9.02 – 11.28 MGOe | 71.8 – 89.7 kJ/m ³ |
| 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 | 75 Shore D | 78 Shore D |
| Density | 0.20 lb/in ³ | 5.6 g/cm ³ |
| Maximum Operating Temperature | 300 °F | 150 °C |

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

