

Bonded Magnet and Magnetic Assemblies Group (BMG)

Product Description: Polymer bonded, oriented Sr-Ferrite and NdFeB hybrid magnet for injection molding. Close dimensional and magnetic tolerances. Intricate shapes.

MAGNETIC PROPERTIES @ 23°C (73°F)

SI CGS

Residual Induction Br	4950 - 5300 G	495 - 530 mT
Coercive Force Hc	3400 - 4100 Oe	271 - 326 kA/m
Intrinsic Coercive Force Hci	7400 - 9100 Oe	589 - 724 kA/m
Maximum Energy Product (BH)max	4.58 – 5.95 MGOe	36.5 – 47.4 kJ/m ³
Reversible Temperature Coefficient of Br	-0.08% per °F	-0.14% per °C
Reversible Temperature Coefficient of Hci	-0.19% per °F	-0.34% per °C
Peak Magnetizing Force Required	30,000 Oe	2370 kA/m

TYPICAL PHYSICAL PROPERTIES* @ 23°C (73°F)

Tensile Strength	4200 psi	29 MPa
Elongation at Break	< 1%	< 1%
Hardness	87 Shore D	87 Shore D
Density	0.18 lb/in ³	4.85 g/cm ³
Maximum Operating Temperature	300 °F	150 °C

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

