

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	4700 - 5200 G	470 - 520 mT
Coercive Force Hc	2160 - 2640 Oe	172 - 210 kA/m
Intrinsic Coercive Force Hci	3600 - 4400 Oe	286 - 350 kA/m
Maximum Energy Product (BH)max	3.67 – 4.77 MGOe	29.2 – 38.0 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	0.17 lb/in ³	4.72 g/cm ³
Maximum Operating Temperature	257 °F	125 °C

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

