PLASTIFORM® 1044/1046 Magnet Material

ROHS COMPLIANT****

PRODUCT DATA SHEET

Typical Magnetic Properties

Properties	Anisotropic			
	CGS/U.S.		SI	
Br	2450	Gauss	245	mTesla
Hc	2335	Oersteds	186	kA/m
Hci	3225	Oersteds	257	kA/m
BHmax	1.4	MGOe	11.1	kJ/m ³
Urec	1.06		1.06	
Temperature Coefficient of Br	-0.11	%/°F	-0.20	%/°C
Temperature Coefficient of Hci	0.08	%/°F	0.15	%/°C
Peak Magnetizing Force Required	10,000	Oersteds	796	kA/m

Features

- Nitrile rubber bonded strontium ferrite magnet
- Made by calendaring sheet process
- Roll Goods
- Refer to the Product Availability Guide for a description of each magnetic material
- Close magnetic tolerances
- Flexible permanent magnet

Typical Physical Properties

Properties	CGS/U.S.	SI	
Mechanical			
Tensile Strength ¹	450 psi	310 Ncm ²	
Elongation at Break ¹	35 %	35 %	
Hardness	44 Shore D	44 Shore D	
Density ³	0.134 lbs/in ³	3.71 g/cm ³	
Electrical			
Volume Resistivity ⁴	10 ¹⁰ Ohm*cm	10 ¹⁰ Ohm*cm	
Dielectric Strength ⁵	250 v/mil	10 kv/mm	
Thermal			
Maximum Continuous Operating Temperature ⁶	250°F	120°C	
Coefficient of Lin. Ther. Expansion ⁷ (Thickness)	9.8 x 10 ⁻⁵ in/in per °F		

Test Methods
¹ASTM D-636
²Arnold Test Method
³ASTM D-297
⁴ASTM D-257
⁵ASTM D-149
⁶Arnold Test Method
⁷ASTM D-696

Flexmag Industries

1000 Magnet Drive., Norfolk, NE 68701 Tel: (800) 328-1373 or (+1) 402-371-6100 Fax: (+1) 402-371-8495 www.flexmag.com

^{*} All values shown are measured at 23°C (73°F).

^{**} All values are based on a standard test plug. Consult with an application engineer for more information on your specific requirements.

^{*} All values shown are typical and are not intended for specification purposes.

^{****}We have instituted manufacturing procedures designed to restrict the use of hazardous substances. To the best of our knowledge, this product is in compliance with EU Directive 2002/95/EC with respect to lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE). Notwithstanding the foregoing, we make no warranty as to the fitness of this product for any purpose.

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