

PLASTIFORM[®] 1530 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 |
| Hx | 2535 Oersteds | 202 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
- Punched Parts
- Laminated with adhesives up to 0.150" in thickness if desired
- Close magnetic tolerances
- Flexible permanent magnet
- Available magnetized or demagnetized; special patterns may require a magnetizing fixture
- Custom tooling; production
- Magnets may be machined for fast, low quantity prototyping

* 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.

Typical Physical Properties

| Properties | CGS/U.S. | SI |
|--|-------------------------------------|------------------------------------|
| Mechanical | | |
| Tensile Strength ¹ | 450 psi | 310 Ncm ² |
| Elongation at Break ¹ | 35 % | 35 % |
| Flexibility ² | 7X thickness | 7X thickness |
| 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 | 18 x 10 ⁻⁵ cm/cm per °C |

Test Methods

¹ASTM D-636

²Arnold Test Method

³ASTM D-297

⁴ASTM D-257

⁵ASTM D-149

⁶Arnold Test Method

⁷ASTM D-696

* 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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