

SABIC Innovative Plastics LNP FARADEx MS002 PP (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Faradex* MS002 is a compound based on Polypropylene resin containing Stainless Steel. Added features of this material include:
Electrically Conductive, EMI/RFI Shielding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-MS002-PP-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ISO 1183
	1.12 g/cc	0.0405 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527
Tensile Strength, Yield	19.0 MPa	2760 psi	ISO 527
Elongation at Break	70 %	70 %	ISO 527
Elongation at Yield	6.1 %	6.1 %	ISO 527
Tensile Modulus	1.20 GPa	174 ksi	1 mm/min; ISO 527
Flexural Strength	31.0 MPa	4500 psi	ISO 178
Flexural Modulus	1.40 GPa	203 ksi	ISO 178
Izod Impact, Notched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	100 kJ/m ²	47.6 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	116 μm/m-°C	64.4 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	156 μm/m-°C	86.7 μin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257
Shielding Effectiveness	40 - 55 dB @Thickness 3.00 mm	40 - 55 dB @Thickness 0.118 in	SABIC Method

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