

SABIC Innovative Plastics LNP Faradex MS002P PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* Faradex* MS002P is a compound based on Polypropylene resin containing Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding, Exceptional Processing. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Faradex-MS002P-PP-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

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
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	100 kJ/m ²	47.6 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.6 µm/m-°C	8.67 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	11.6 µm/m-°C	6.44 µin/in-°F	

CTE linear Transverse to Flow Thermal Properties	Metric @ Temperature -40.0 - 40.0 °C	English @ Temperature -40.0 - 104 °F	ISO 11359-2 Comments
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
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
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	ASTM D 257
Surface Resistance	1e+05	1e+05	ASTM D 257
Shielding Effectiveness	40 - 55 dB @Thickness 3.00 mm	40 - 55 dB @Thickness 0.118 in	SABIC Method

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