

SABIC Innovative Plastics LNP Faradex EX06464 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Faradex* EX06464 is a compound based on Polyetherimide resin containing Stainless Steel. Added features of this material include:
Electrically Conductive, EMI/RFI Shielding. 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-EX06464-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D 792
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D 792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	SABIC Method
	0.0055 cm/cm @Time 86400 sec	0.0055 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0061 cm/cm	0.0061 in/in	SABIC Method
	0.0061 cm/cm @Time 86400 sec	0.0061 in/in @Time 24.0 hour	ASTM D 955
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 360 °C	8.0 g/10 min @Load 11.0 lb, Temperature 680 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	10 g/10 min @Load 6.60 kg, Temperature 367 °C	10 g/10 min @Load 14.6 lb, Temperature 693 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
	100 MPa	14500 psi	5 mm/min; ISO 527
	109 MPa	15800 psi	ASTM D 638
	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.1 %	3.1 %	ISO 527
	3.1 %	3.1 %	5 mm/min; ISO 527
	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
	MPa	ksi	ASTM D 638
Tensile Modulus	5.86 GPa	850 ksi	50 mm/min; ASTM D 638
	5.90 GPa	856 ksi	1 mm/min; ISO 527
	5.97 GPa	866 ksi	5 mm/min; ASTM D 638
Flexural Strength	197 MPa	28600 psi	ISO 178
	199 MPa	28900 psi	ASTM D 790
Flexural Yield Strength	198 MPa	28700 psi	1.3 mm/min, 50 mm span; ASTM D 790
	200 MPa	29000 psi	2 mm/min; ISO 178
Flexural Modulus	5.40 GPa	783 ksi	ISO 178
	5.47 GPa	793 ksi	2 mm/min; ISO 178
	5.85 GPa	848 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	5.86 GPa	850 ksi	ASTM D 790
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	4.96 J/cm	9.29 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 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	26.0 µm/m-°C	14.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	27.0 µm/m-°C	15.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	51.0 µm/m-°C	28.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties	Metric °C	English °F	Comments
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	201 °C	394 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	180 °C	356 °F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.440 mm	@Thickness 0.0173 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.0 ohm-cm	9.0 ohm-cm	ASTM D 257
Surface Resistance	5.0 - 10000 ohm	5.0 - 10000 ohm	ASTM D 257
	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ROA; IEC 60093
Shielding Effectiveness	55 dB	55 dB	SABIC Method
	@Thickness 3.00 mm	@Thickness 0.118 in	
	55 - 65 dB	55 - 65 dB	SABIC Method
	@Thickness 3.00 mm	@Thickness 0.118 in	

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