

SABIC Innovative Plastics LNP Faradex DS0026 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Faradex* DS0026 is a compound based on Polycarbonate resin containing Flame Retardant, Stainless Steel Fiber. Added features include: EMI/RFI Shielding, Flame Retardant, Non-Brominated & Non-Chlorinated Flame Retardant, Electrically Conductive. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Faradex-DS0026-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Water Absorption	0.21 % @Temperature 23.0 °C, Time 86400 sec	0.21 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	5 mm/min; ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	5 mm/min; ISO 527
Elongation at Yield	3.4 %	3.4 %	5 mm/min; ISO 527
Tensile Modulus	2.90 GPa	421 ksi	1 mm/min; ISO 527
Flexural Yield Strength	93.0 MPa	13500 psi	2 mm/min; ISO 178
Flexural Modulus	2.80 GPa	406 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ² @Temperature 23.0 °C	42.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 µm/m-°C @Temperature 23.0 - 60.0 °C	35.0 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	65.0 µm/m-°C @Temperature 23.0 -	36.1 µin/in-°F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	60.0 °C Metric	140 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D 257
Shielding Effectiveness	30 - 45 dB @Thickness 3.00 mm	30 - 45 dB @Thickness 0.118 in	SABIC Method

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