

SABIC Innovative Plastics LNP Faradex DS0036IC PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* FARADEx* DS0036IC is a compound based on Polycarbonate resin, containing Stainless Steel Fiber, Flame Retardant. Added features include: Non-Brominated & Non-Chlorinated Flame Retardant, High Impact, EMI / RMI Shielding. 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-DS0036IC-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.0 MPa	8560 psi	5 mm/min; ISO 527
Elongation at Yield	4.2 %	4.2 %	5 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Yield Strength	86.0 MPa	12500 psi	2 mm/min; ISO 178
Flexural Modulus	2.70 GPa	392 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	14.0 kJ/m ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
Flammability, UL94	V-1 @Thickness 1.60 mm	V-1 @Thickness 0.0630 in	UL 94
	V-0 @Thickness 2.00 mm	V-0 @Thickness 0.0787 in	UL 94

Electrical Properties	Metric	English	Comments
Shielding Effectiveness	40 - 55 dB @Thickness 3.00 mm	40 - 55 dB @Thickness 0.118 in	SABIC Method

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