

SABIC Innovative Plastics LNP Faradex NS0039XP PC+ABS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

LNP* FARADEx* NS0039XP is a compound based on PC/ABS resin containing Stainless Steel Fiber, Flame Retardant. Added features include: Electrically Conductive, EMI/RFI Shielding, Flame retardant. 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-NS0039XP-PCABS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Water Absorption	0.11 % @Temperature 23.0 °C, Time 86400 sec	0.11 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	5 mm/min; ISO 527
Tensile Strength, Yield	67.0 MPa	9720 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	3.60 GPa	522 ksi	1 mm/min; ISO 527
Flexural Strength	91.0 MPa	13200 psi	2 mm/min; ISO 178
Flexural Yield Strength	110 MPa	16000 psi	2 mm/min; ISO 178
Flexural Modulus	3.20 GPa	464 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U

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

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	111 °C	232 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	101 °C	214 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	HB	HB	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-1	V-1	
	@Thickness 1.00 mm	@Thickness 0.0394 in	UL 94
	V-0	V-0	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Shielding Effectiveness	50 - 65 dB	50 - 65 dB	SABIC Method
	@Thickness 3.00 mm	@Thickness 0.118 in	

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