

SABIC Innovative Plastics LNP Faradex NS0039 PC/ABS (Europe-Africa-Middle East)

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

Material Notes:

LNP* Faradex* NS0039 is a compound based on PC/ABS resin containing Flame Retardant, Stainless Steel. Added features of this material 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-NS0039-PCABS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0042 cm/cm	0.0042 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0045 cm/cm	0.0045 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	ISO 527
Elongation at Break	10 %	10 %	ISO 527
Elongation at Yield	3.3 %	3.3 %	ISO 527
Tensile Modulus	3.20 GPa	464 ksi	1 mm/min; ISO 527
Flexural Strength	102 MPa	14800 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	43.0 kJ/m ²	20.5 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	77.0 µm/m-°C	42.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	40.0 °C Metric	104 °F English	Comments
CTE, linear, Transverse to Flow	64.0 µm/m-°C @Temperature -40.0 - 40.0 °C	35.6 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °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
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D 257
Surface Resistance	1000 ohm	1000 ohm	ASTM D 257
Shielding Effectiveness	50 - 65 dB @Thickness 3.00 mm	50 - 65 dB @Thickness 0.118 in	SABIC Method

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