

SABIC Innovative Plastics LNP FARADEx AS003 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Faradex* AS003 is a compound based on Acrylonitrile Butadiene Styrene resin containing 15% Stainless Steel. Added features of this material include: Electrically Conductive, EMI/RFI Shielding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-AS003-ABS.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0027 cm/cm	0.0027 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0039 cm/cm	0.0039 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	ISO 527
	39.0 MPa	5660 psi	ASTM D638
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527
	42.0 MPa	6090 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ISO 527
	6.2 %	6.2 %	ASTM D638
Elongation at Yield	2.2 %	2.2 %	ISO 527
	2.6 %	2.6 %	ASTM D638
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527

Mechanical Properties	3.15 GPa Metric	457 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	66.0 MPa	9570 psi	ISO 178
	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
	3.04 GPa	441 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.07 J/cm	5.75 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 µm/m-°C @Temperature -40.0 - 40.0 °C	39.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	77.4 µm/m-°C @Temperature -40.0 - 40.0 °C	43.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	63.0 µm/m-°C @Temperature -40.0 - 40.0 °C	35.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	93.0 µm/m-°C @Temperature -40.0 - 40.0 °C	51.7 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	96.0 °C @Thickness 3.20 mm	205 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	88.0 °C @Thickness 3.20 mm	190 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric ohm-cm	English ohm-cm	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257
Shielding Effectiveness	50 - 65 dB @Thickness 3.00 mm	50 - 65 dB @Thickness 0.118 in	SABIC Method

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