

SABIC Innovative Plastics LNP FARADEx PS003E PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* Faradex* PS003E is a compound based on Nylon 6 resin containing 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-PS003E-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	1.30 %	1.30 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0072 cm/cm	0.0072 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ISO 527
	55.0 MPa	7980 psi	ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	ISO 527
	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	8.6 %	8.6 %	ISO 527
	23 %	23 %	ASTM D638
Elongation at Yield	3.3 %	3.3 %	ISO 527
	9.6 %	9.6 %	ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
	3.15 GPa	457 ksi	50 mm/min; ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ISO 178
	82.0 MPa	11900 psi	ASTM D790

Flexural Modulus Mechanical Properties	2.31 GPa Metric	335 ksi English	ASTM D790 Comments
	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.89 J/cm	7.29 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	43.0 kJ/m ²	20.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.5 µm/m-°C	21.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	70.2 µm/m-°C	39.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	42.8 µm/m-°C	23.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	75.6 µm/m-°C	42.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	171 °C	340 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	186 °C	367 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	58.0 °C	136 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	62.0 °C	144 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257
Surface Resistance	1000 ohm	1000 ohm	ASTM D257

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