

SABIC Innovative Plastics LNP FARADEx NX07344 PC+ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Faradex NX07344 is a compound based on PC+ABS blend resin containing non-brominated and non-chlorinated flame retardant system, Stainless Steel and glass fiber. Added features of this material include: EMI/RFI Shielding and ESD.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-NX07344-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption	0.0400 %	0.0400 %	23°C / 50% RH; ISO 62
	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0038 cm/cm	0.0038 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0046 cm/cm	0.0046 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D638
	62.0 MPa	8990 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.8 %	1.8 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	5.80 GPa	841 ksi	1 mm/min; ISO 527
	6.00 GPa	870 ksi	50 mm/min; ASTM D638
Flexural Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
	105 MPa	15200 psi	2 mm/min; ISO 178
Flexural Modulus	5.30 GPa	769 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256

Mechanical Properties	0.440 J/cm Metric	0.824 ft-lb/in English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched	3.50 J/cm	6.56 ft-lb/in	ASTM D4812
	3.30 J/cm	6.18 ft-lb/in	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U
	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 μm/m-°C	16.1 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
	31.0 μm/m-°C	17.2 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	58.0 μm/m-°C	32.2 μin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	74.0 μm/m-°C	41.1 μin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	94.0 °C	201 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	96.0 °C	205 °F	unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Vicat Softening Point	101 °C	214 °F	Rate A/50; ASTM D1525
	102 °C	216 °F	Rate A/50; ISO 306
	105 °C	221 °F	Rate B/120; ISO 306
	105 °C	221 °F	Rate B/50; ASTM D1525
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.00e+6 ohm-cm	10000 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	ASTM D257
Shielding Effectiveness	47 - 53 dB @Thickness 1.50 mm	47 - 53 dB @Thickness 0.0591 in	SABIC Method
	60 - 70 dB @Thickness 3.00 mm	60 - 70 dB @Thickness 0.118 in	SABIC Method

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