

SABIC Innovative Plastics LNP FARADEx NX07330 PC+ABS (Asia Pacific)

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

Material Notes:

Faradex NX07330 is a compound based on PC+ABS blend resin containing 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-NX07330-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0059 cm/cm	0.0059 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0064 cm/cm	0.0064 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	ISO 527
Elongation at Break	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	3.1 %	3.1 %	5 mm/min; ISO 527
	6.4 %	6.4 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	3.80 GPa	551 ksi	1 mm/min; ISO 527
	3.90 GPa	566 ksi	5 mm/min; ASTM D638
Flexural Strength	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D790
	87.0 MPa	12600 psi	2 mm/min; ISO 178
Flexural Modulus	3.60 GPa	522 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256
	0.660 J/cm	1.24 ft-lb/in	ASTM D256

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
Izod Impact, Unnotched	7.90 J/cm	14.8 ft-lb/in	ASTM D4812
	6.04 J/cm	11.3 ft-lb/in	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	80*10*4; ISO 180/1U
	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/2C
Dart Drop, Total Energy	19.0 J	14.0 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 µm/m-°C	17.2 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
	32.0 µm/m-°C	17.8 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	71.0 µm/m-°C	39.4 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)	124 °C	255 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	122 °C	252 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	143 °C	289 °F	Rate B/50; ASTM D1525
	143 °C	289 °F	Rate B/50; ISO 306
	144 °C	291 °F	Rate B/120; ISO 306

Thermal Properties	Metric	English	Comments
	143 °C	291 °F	Rate A/50, ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 - 1.00e+9 ohm-cm	1.00e+6 - 1.00e+9 ohm-cm	ASTM D257
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ASTM D257
Shielding Effectiveness	30 - 38 dB @Thickness 3.00 mm	30 - 38 dB @Thickness 0.118 in	SABIC Method

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