

SABIC Innovative Plastics LNP FARADEx NS0031 PC+ABS (Asia Pacific)

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

Material Notes:

Faradex NS0031 is a compound based on PC+ABS blend resin containing non-brominated and non-chlorinated flame retardant system, Stainless Steel. 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-NS0031-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0059 cm/cm @Thickness 3.20 mm	0.0059 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	12.3 g/10 min @Load 5.00 kg, Temperature 280 °C	12.3 g/10 min @Load 11.0 lb, Temperature 536 °F	ASTM D1238
Melt Index of Compound	31 g/10 min @Load 10.0 kg, Temperature 265 °C	31 g/10 min @Load 22.0 lb, Temperature 509 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	5 mm/min; ISO 527
	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	5 mm/min; ISO 527
	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.7 %	3.7 %	Type I, 5 mm/min; ASTM D638
	4.4 %	4.4 %	5 mm/min; ISO 527
Elongation at Yield	3.2 %	3.2 %	5 mm/min; ISO 527
	3.4 %	3.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527

Mechanical Properties	3.12 GPa Metric	453 ksi English	5 mm/min: ASTM D638 Comments
Flexural Yield Strength	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D790
	102 MPa	14800 psi	2 mm/min; ISO 178
Flexural Modulus	2.97 GPa	431 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.09 GPa	448 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	0.430 J/cm @Temperature -30.0 °C	0.806 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Unnotched	6.86 J/cm	12.9 ft-lb/in	ASTM D4812
	5.88 J/cm @Temperature -30.0 °C	11.0 ft-lb/in @Temperature -22.0 °F	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
	39.0 kJ/m ² @Temperature -30.0 °C	18.6 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 µm/m-°C	30.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	57.0 µm/m-°C	31.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	66.0 µm/m-°C	36.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	Flatw 80*10-4 sp=64mm; ISO 75/A1
	96.0 °C @Thickness 3.20 mm	205 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	109 °C	228 °F	Rate B/50; ASTM D1525
	109 °C	228 °F	Rate B/50; ISO 306
	112 °C	234 °F	Rate B/120; ISO 306
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	ASTM D257
Surface Resistance	1e+05	1e+05	ASTM D257
Shielding Effectiveness	47 dB @Thickness 3.00 mm	47 dB @Thickness 0.118 in	SABIC Method

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