

SABIC Innovative Plastics NORYL N225X PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

PPE+PS blend. Unfilled. Halogen-Free FR performance. UL94 V0/5VA. UL746C F1. Dielectric Strength. Suitable for E/E market indoor/outdoor applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-N225X-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	17 %	17 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	8.0 %	8.0 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	99.0 MPa	14400 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.49 GPa	361 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.86 J/cm	3.48 ft-lb/in	ASTM D256
	0.960 J/cm @Temperature -30.0 Å°C	1.80 ft-lb/in @Temperature -22.0 Å°F	ASTM D256
	8.86 J/cm @Thickness 3.20 mm	16.6 ft-lb/in @Thickness 0.126 in	ASTM D256
Dart Drop, Total Energy	39.0 J	28.8 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	11.0 J @Temperature -30.0 Å°C	8.11 ft-lb @Temperature -22.0 Å°F	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	109 Â°C @Thickness 6.40 mm	228 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C @Thickness 6.40 mm	210 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	128 Â°C	262 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	95.0 Â°C	203 Â°F	UL 746B
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	UL 746B
UL RTI, Mechanical without Impact	95.0 Â°C	203 Â°F	UL 746B
Flammability, UL94	HB @Thickness 0.400 mm	HB @Thickness 0.0157 in	UL 94
	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	UL 94
	5VA @Thickness 2.99 mm	5VA @Thickness 0.118 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.80e+16 ohm-cm	2.80e+16 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ASTM D257
Dielectric Constant	2.55 @Frequency 1.00e+6 Hz	2.55 @Frequency 1.00e+6 Hz	ASTM D150
	2.69 @Frequency 50.0 - 60.0 Hz	2.69 @Frequency 50.0 - 60.0 Hz	ASTM D150
Dielectric Strength	16.2 kV/mm @Thickness 3.20 mm	411 kV/in @Thickness 0.126 in	in oil; ASTM D149
Dissipation Factor	0.0070 @Frequency 1.00e+6 Hz	0.0070 @Frequency 1.00e+6 Hz	ASTM D150
	0.010 @Frequency 50.0 - 60.0 Hz	0.010 @Frequency 50.0 - 60.0 Hz	ASTM D150

Electrical Properties	Metric) sec	English) sec	Comments
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A ASTM D495
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Radiant Panel Listing	YES	UL Tested
UV-light, water exposure/immersion	F1	UL 746C

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