

SABIC Innovative Plastics NORYL PX1391 PPE+PS

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

Material Notes:

PPE+PS blend. Unfilled. High heat. Dielectric strength. Dimensional stability. Suitable for E/E applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX1391-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.0 MPa	9860 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.44 GPa	354 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.24 J/cm	4.20 ft-lb/in	ASTM D256
	1.33 J/cm @Temperature -40.0 Â°C	2.49 ft-lb/in @Temperature -40.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 Âµm/m-Â°C @Temperature 0.000 - 100 Â°C	38.0 Âµin/in-Â°F @Temperature 32.0 - 212 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C @Thickness 6.40 mm	320 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	153 Â°C @Thickness 6.40 mm	307 Â°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	HB @Thickness 0.710 mm	HB @Thickness 0.0280 in	UL 94

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.67 @Frequency 1.00e+6 Hz	2.67 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	19.3 kV/mm @Thickness 1.60 mm	490 kV/in @Thickness 0.0630 in	in oil; ASTM D149
Dissipation Factor	0.00050 @Frequency 1.00e+6 Hz	0.00050 @Frequency 1.00e+6 Hz	ASTM D150

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