

SABIC Innovative Plastics NORYL PX1390 PPE+PS

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

Material Notes:

Automotive applications, primarily. Excellent electrical properties, easy processability, high heat, 295F (146C) DTUL.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX1390-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	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	2.27 GPa	329 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.88 J/cm	5.40 ft-lb/in	ASTM D256
	1.60 J/cm	3.00 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 Âµm/m-Â°C	40.0 Âµin/in-Â°F	ASTM E 831
	@Temperature 0.000 - 100 Â°C	@Temperature 32.0 - 212 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	154 Â°C	309 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	146 Â°C	295 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
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

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