

SABIC Innovative Plastics NORYL SE1X PPE+PS (Asia Pacific)

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

Material Notes:

PPO+PS. Improved productivity and reliability. Nonchlorinated, nonbrominated flame retardant. 244F HDT.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SE1X-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Water Absorption	0.060 % @Time 86400 sec	0.060 % @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
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	67.0 MPa	9720 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	20 %	20 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	8.1 %	8.1 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	102 MPa	14800 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.08 J/cm	3.90 ft-lb/in	ASTM D256
	1.06 J/cm @Temperature -30.0 Â°C	1.99 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Dart Drop, Total Energy	51.0 J	37.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	32.0 J @Temperature -30.0 Â°C	23.6 ft-lb @Temperature -22.0 Â°F	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	125 Â°C Metric	259 Â°F English	Comments
Thermal Deflection Temperature at 0.46 MPa (66 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	117 Â°C @Thickness 6.40 mm	243 Â°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	110 Â°C	230 Â°F	UL 746B
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical without Impact	110 Â°C	230 Â°F	UL 746B
Flammability, UL94	V-1 @Thickness 1.47 mm	V-1 @Thickness 0.0579 in	UL 94
	V-0 @Thickness 5.99 mm	V-0 @Thickness 0.236 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.30e+16 ohm-cm	2.30e+16 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D257
Dielectric Constant	2.46 @Frequency 1.00e+6 Hz	2.46 @Frequency 1.00e+6 Hz	ASTM D150
	2.52 @Frequency 50.0 - 60.0 Hz	2.52 @Frequency 50.0 - 60.0 Hz	ASTM D150
Dielectric Strength	18.1 kV/mm @Thickness 3.20 mm	460 kV/in @Thickness 0.126 in	in oil; ASTM D149
Dissipation Factor	0.0021 @Frequency 1.00e+6 Hz	0.0021 @Frequency 1.00e+6 Hz	ASTM D150
	0.0034 @Frequency 50.0 - 60.0 Hz	0.0034 @Frequency 50.0 - 60.0 Hz	ASTM D150
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Radiant Panel Listing	RP100	UL Tested
UV-light, water exposure/immersion	F1	UL 746C

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