

SABIC Innovative Plastics NORYL SE100X PPE+PS

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

Material Notes:

PPE+PS blend. Unfilled. Non-brominated, non-chlorinated FR system. UL94 V0/V1 rated. RTI Elec/Imp/Str 95/80/95. Good flow. Suitable for E/E market indoor/outdoor applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SE100X-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 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	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.5 %	6.5 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	82.0 MPa	11900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.56 J/cm	4.80 ft-lb/in	ASTM D256
	0.900 J/cm @Temperature -30.0 °C	1.69 ft-lb/in @Temperature -22.0 °F	ASTM D256
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	16.0 J @Temperature -30.0 °C	11.8 ft-lb @Temperature -22.0 °F	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa	102 °C	216 °F	unannealed; ASTM D648

(56 psi) Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Å°C @Thickness 6.40 mm	198 Å°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	95.0 Å°C	203 Å°F	UL 746B
UL RTI, Mechanical with Impact	80.0 Å°C	176 Å°F	UL 746B
UL RTI, Mechanical without Impact	95.0 Å°C	203 Å°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
Oxygen Index	32.5 %	32.5 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.10e+16 ohm-cm	3.10e+16 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D257
Dielectric Constant	2.57 @Frequency 1.00e+6 Hz	2.57 @Frequency 1.00e+6 Hz	ASTM D150
	2.66 @Frequency 50.0 - 60.0 Hz	2.66 @Frequency 50.0 - 60.0 Hz	ASTM D150
Dielectric Strength	17.9 kV/mm @Thickness 3.20 mm	455 kV/in @Thickness 0.126 in	in oil; ASTM D149
Dissipation Factor	0.0026 @Frequency 1.00e+6 Hz	0.0026 @Frequency 1.00e+6 Hz	ASTM D150
	0.0060 @Frequency 50.0 - 60.0 Hz	0.0060 @Frequency 50.0 - 60.0 Hz	ASTM D150
Arc Resistance	0.00 - 60 sec	0.00 - 60 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	YES	UL Tested
UV-light, water exposure/immersion	F1	UL 746C

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