

SABIC Innovative Plastics NORYL SE100HX PPE+PS

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

Material Notes:

Improved productivity and reliability. Nonchlorinated, nonbrominated FR.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SE100HX-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	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	
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	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	21 %	21 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	7.5 %	7.5 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	89.0 MPa	12900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.29 J/cm	4.29 ft-lb/in	ASTM D256
	0.900 J/cm	1.69 ft-lb/in	
Dart Drop, Total Energy	31.0 J	22.9 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	3.00 J	2.21 ft-lb	
	@Temperature -30.0 ÅC	@Temperature -22.0 ÅF	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	103 Å°C @Thickness 6.40 mm	217 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Å°C @Thickness 6.40 mm	201 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

Electrical Properties	Metric	English	Comments
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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China