

SABIC Innovative Plastics NORYL SPN420 PPE+PS

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

Material Notes:

Superior Productivity plus heat and impact resistance. Excellent processability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-SPN420-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	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, Yield	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	72.0 MPa	10400 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.93 J/cm	5.49 ft-lb/in	ASTM D256
Gardner Impact	27.0 J	19.9 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	50.0 Å°C	122 Å°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Å°C	122 Å°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Å°C	122 Å°F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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