

SABIC Innovative Plastics NORYL FN170X PPE+PS

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

Material Notes:

Foamable resin. All properties at 10% density reduction; 0.250" thick test specimens.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-FN170X-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	foam molded; ASTM D792
	1.11 g/cc	1.11 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	SABIC Method
	@Thickness 6.40 mm	@Thickness 0.252 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Break	13.1 %	13.1 %	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Yield	5.7 %	5.7 %	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Flexural Yield Strength	66.0 MPa	9570 psi	6.4 mm; ASTM D790
Flexural Modulus	2.13 GPa	309 ksi	6.4 mm; ASTM D790
Izod Impact, Unnotched	2.77 J/cm	5.19 ft-lb/in	ASTM D4812
	@Thickness 6.40 mm	@Thickness 0.252 in	
Dart Drop, Total Energy	57.0 J	42.0 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C @Thickness 6.40 mm	172 °F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	85.0 °C	185 °F	UL 746B
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746B
UL RTI, Mechanical without Impact	85.0 °C	185 °F	UL 746B
Flammability, UL94	V-1 @Thickness 2.99 mm	V-1 @Thickness 0.118 in	UL 94
	5VA @Thickness 4.69 mm	5VA @Thickness 0.185 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
FOAM - Flame Class Minimum Density	1g/cm^3	
FOAM - IMPACT 6.4 mm Wt Reduction	10%	
FOAM - MECHANICAL 6.4 mm Wt Reduction	10%	
FOAM - PHYSICAL 6.4mm Wt Reduction	10%	
FOAM - THERMAL 6.4mm Wt Reduction	10%	
Radiant Panel Listing	YES	UL Tested
UV-light, water exposure/immersion	F2	UL 746C

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