

SABIC Innovative Plastics NORYL FN150X PPE+PS

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

Material Notes:

Improved reliability and productivity. Thin wall capability. UL94 V-0/5VA rated. All data at 20% weight reduction and 0.250" wall.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-FN150X-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 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	
Linear Mold Shrinkage, Transverse	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
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Break	14 %	14 %	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Yield	7.3 %	7.3 %	ASTM D638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Flexural Yield Strength	52.0 MPa	7540 psi	6.4 mm; ASTM D790
Flexural Modulus	1.74 GPa	252 ksi	6.4 mm; ASTM D790
Izod Impact, Unnotched	3.41 J/cm	6.39 ft-lb/in	ASTM D4812
	@Thickness 6.40 mm	@Thickness 0.252 in	
Taber Abrasion, mg/1000 Cycles	152	152	CS-17, 1 kg; ASTM D1044

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C @Thickness 6.40 mm	192 °F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C @Thickness 6.40 mm	163 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	110 °C	230 °F	Rate B/50; ASTM D1525
UL RTI, Electrical	50.0 °C	122 °F	UL 746B
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746B
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746B
Flammability, UL94	V-0 @Thickness 3.98 mm	V-0 @Thickness 0.157 in	UL 94
	5VA @Thickness 3.98 mm	5VA @Thickness 0.157 in	UL 94

Descriptive Properties	Value	Comments
FOAM - Flame Class Minimum Density	0.9g/cm ³	
FOAM - IMPACT 6.4 mm Wt Reduction	20%	
FOAM - MECHANICAL 6.4 mm Wt Reduction	20%	
FOAM - PHYSICAL 6.4mm Wt Reduction	20%	
FOAM - THERMAL 6.4mm Wt Reduction	20%	
Radiant Panel Listing	YES	UL Tested

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