

SABIC Innovative Plastics NORYL N750 PPE+PS

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

Material Notes:

ECO-FLO(tm). ECO conforming, nonhalogenated flame retardant PPE+PS. High flow. Electrical, TV and Business Equipment applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-N750-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 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
Melt Flow	28 g/10 min @Load 3.80 kg, Temperature 260 Â°C	28 g/10 min @Load 8.38 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.34 GPa	339 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	75.0 MPa	10900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Dart Drop, Total Energy	31.0 J @Temperature 23.0 Â°C	22.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	43.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	81.0 Âµm/m-Â°C	45.0 Âµin/in-Â°F	

CTE linear, Transverse to Flow Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ASTM E 831 Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.0 Â°C @Thickness 3.20 mm	180 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	86.0 Â°C @Thickness 6.40 mm	187 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.0 Â°C @Thickness 3.20 mm	163 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	76.0 Â°C @Thickness 6.40 mm	169 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	89.0 Â°C	192 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	UL 746B
UL RTI, Mechanical without Impact	65.0 Â°C	149 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 2.99 mm	V-0 @Thickness 0.118 in	UL 94

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

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