

SABIC Innovative Plastics Noryl N1251 PPE+PS

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

Material Notes:

ECO-FLO(tm). ECO conforming, non-halogen flame retardant PPE+PS. High flow. Electrical and Business Equipment applications. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-N1251-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D 792
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	9.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C	9.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	20 %	20 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	4.2 %	4.2 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.49 GPa	361 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	97.0 MPa	14100 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.48 GPa	360 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.13 J/cm @Temperature 23.0 Â°C	3.99 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Impact Test	45.0 J @Temperature 23.0 Â°C	33.2 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
	64.8 Âµm/m-Â°C	36.0 Âµin/in-Â°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	ASTM E 831 Comments
CTE, linear, Transverse to Flow	72.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	40.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	131 Â°C @Thickness 3.20 mm	268 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	134 Â°C @Thickness 6.40 mm	273 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	116 Â°C @Thickness 3.20 mm	241 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	123 Â°C @Thickness 6.40 mm	253 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	136 Â°C	277 Â°F	Rate B/50; ASTM D 1525
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-1 @Thickness 1.49 mm	V-1 @Thickness 0.0587 in	UL 94

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 - 400 V	250 - 400 V	PLC code 2; UL 746A
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	PLC code 1; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A

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