

SABIC Innovative Plastics NORYL IGN320 PPE+PS

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

Material Notes:

20% glass reinforced PPE + PS. High heat, high modulus automotive applications like ignition coils.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-IGN320-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	12.8 g/10 min @Load 5.00 kg, Temperature 300 Â°C	12.8 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.26 GPa	908 ksi	5 mm/min; ASTM D638
Flexural Strength	170 MPa	24700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.72 GPa	830 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.12 J/cm	9.59 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	164 Â°C	327 Â°F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	158 Å°C @Thickness 3.20 mm	316 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	175 Å°C	347 Å°F	Rate B/50; ASTM D1525

Electrical Properties	Metric	English	Comments
Dielectric Strength	33.9 kV/mm @Thickness 1.60 mm	861 kV/in @Thickness 0.0630 in	in oil; ASTM D149

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