

SABIC Innovative Plastics Noryl GTX GTX8710 PPE+PA

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

Noryl GTX8710 resin is a glass filled, high performance blend of PPE/PA that exhibits an exceptional balance of high-heat resistance, strength, flow, and conductivity. This grade can be electro-statically painted or powder coated without the need for a conductive primer. 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-GTX-GTX8710-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D 792
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.2 %	1.2 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	4.0 % @Temperature 23.0 ^o C	4.0 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0055 - 0.0065 cm/cm @Thickness 3.20 mm	0.0055 - 0.0065 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0070 - 0.0080 cm/cm @Thickness 3.20 mm	0.0070 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 280 ^o C	10 g/10 min @Load 11.0 lb, Temperature 536 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	11.7 g/10 min @Load 5.00 kg, Temperature 280 ^o C	11.7 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	Type I, 5 mm/min; ASTM D 638
	100 MPa	14500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	100 MPa	14500 psi	Type I, 5 mm/min; ASTM D 638
	100 MPa	14500 psi	5 mm/min; ISO 527
Elongation at Break	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D 638
	4.5 %	4.5 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Elongation at Yield	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D 638
	4.5 %	4.5 %	5 mm/min; ISO 527
Tensile Modulus	5.00 GPa	725 ksi	5 mm/min; ASTM D 638
	5.00 GPa	725 ksi	1 mm/min; ISO 527
Flexural Yield Strength	165 MPa	23900 psi	1.3 mm/min, 50 mm span; ASTM D 790
	165 MPa	23900 psi	2 mm/min; ISO 178
Flexural Modulus	4.30 GPa	624 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	4.30 GPa	624 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.650 J/cm @Temperature -30.0 Â°C	1.22 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	0.900 J/cm @Temperature 23.0 Â°C	1.69 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	7.00 kJ/mÂ² @Temperature -30.0 Â°C	3.33 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	9.00 kJ/mÂ² @Temperature 23.0 Â°C	4.28 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.00 J/cmÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	28.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	82.0 Âµm/m-Â°C	45.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 Â°C	428 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	210 Â°C	410 Â°F	Rate B/50; ASTM D 1525
	210 Â°C	410 Â°F	Rate B/50; ISO 306
	210 Â°C	410 Â°F	Rate B/120; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 10000 ohm-cm	1000 - 10000 ohm-cm	SABIC Method

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