

SABIC Innovative Plastics Noryl GTX GTX8721 PPE+PA

Category : Polymer , Thermoplastic , Polyester, TP , Polyphenylene Ether/PPO

Material Notes:

Noryl GTX GTX8721 resin is a glass and talc filled, high performance blend of PPE/PA that exhibits an excellent balance of high-heat resistance, strength, flow, conductivity, and low warpage. This grade can be electrostatically painted or powder coated without the need for 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-GTX8721-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D 792
Density	1.37 g/cc	0.0495 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	0.0023 - 0.0028 cm/cm @Thickness 3.20 mm	0.0023 - 0.0028 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0064 - 0.0070 cm/cm @Thickness 3.20 mm	0.0064 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 280 ^o C	5.0 g/10 min @Load 11.0 lb, Temperature 536 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	6.8 g/10 min @Load 5.00 kg, Temperature 280 ^o C	6.8 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D 638
	145 MPa	21000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D 638
	145 MPa	21000 psi	5 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D 638
	5.0 %	5.0 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	10.5 GPa	1520 ksi	5 mm/min; ASTM D 638
	10.5 GPa	1520 ksi	1 mm/min; ISO 527
Flexural Yield Strength	220 MPa	31900 psi	1.3 mm/min, 50 mm span; ASTM D 790
	220 MPa	31900 psi	2 mm/min; ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	9.50 GPa	1380 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.650 J/cm @Temperature -30.0 °C	1.22 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	0.850 J/cm @Temperature 23.0 °C	1.59 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.600 J/cm ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	6.00 J @Temperature 23.0 °C	4.43 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	12.2 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
	22.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	12.2 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ASTM E 831
	68.0 Åµm/m-Å°C	37.8 Åµin/in-Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	215 Å°C	419 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 Å°C @Thickness 3.20 mm	428 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	215 Å°C	419 Å°F	Rate B/50; ISO 306
	215 Å°C	419 Å°F	Rate B/120; ISO 306
	220 Å°C	428 Å°F	Rate B/50; ASTM D 1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	500 - 10000 ohm-cm	500 - 10000 ohm-cm	SABIC Method

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China