

SABIC Innovative Plastics NORYL GTX GTX8720 PPE+PA

Category : Polymer , Thermoplastic , Nylon , Polyphenylene Ether/PPO

Material Notes:

Noryl GTX* GTX8720 resin is a glass filled, high performance blend of PPE/PA that exhibits an excellent 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX8720-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	4.0 %	4.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.0026 - 0.0030 cm/cm @Thickness 3.20 mm	0.0026 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0072 - 0.0085 cm/cm @Thickness 3.20 mm	0.0072 - 0.0085 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.6 g/10 min @Load 5.00 kg, Temperature 280 Â°C	8.6 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	7.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C	7.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	140 MPa	20300 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	5 mm/min; ISO 527
Elongation at Yield	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
	3.1 %	3.1 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	7.00 GPa	1020 ksi	5 mm/min; ASTM D538
	7.00 GPa	1020 ksi	1 mm/min; ISO 527
Flexural Yield Strength	200 MPa	29000 psi	1.3 mm/min, 50 mm span; ASTM D790
	200 MPa	29000 psi	2 mm/min; ISO 178
Flexural Modulus	6.60 GPa	957 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.60 GPa	957 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	0.600 J/cm	1.12 ft-lb/in	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	17.0 J	12.5 ft-lb	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 Âµm/m-Â°C	12.8 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	23.0 Âµm/m-Â°C	12.8 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa	215 Â°C	419 Â°F	

(56 psi) Thermal Properties	Metric	English	Flatw 80*10*4 sp=64mm; ISO 75/Bf Comments
	215 Â°C	419 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	215 Â°C	419 Â°F	Rate B/50; ASTM D1525
	215 Â°C	419 Â°F	Rate B/50; ISO 306
	225 Â°C	437 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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