

SABIC Innovative Plastics NORYL GTX GTX8730 PPE+PA

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

Material Notes:

Noryl GTX* GTX8730 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-GTX8730-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption	1.20 %	1.20 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	4.0 %	4.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0025 cm/cm @Thickness 3.20 mm	0.0020 - 0.0025 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0065 - 0.0080 cm/cm @Thickness 3.20 mm	0.0065 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13.7 g/10 min @Load 5.00 kg, Temperature 280 Â°C	13.7 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 280 Â°C	10 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	185 MPa	26800 psi	Type I, 5 mm/min; ASTM D638
	185 MPa	26800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	185 MPa	26800 psi	Type I, 5 mm/min; ASTM D638
	185 MPa	26800 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	12.0 GPa	1740 ksi	5 mm/min; ASTM D538
	12.0 GPa	1740 ksi	1 mm/min; ISO 527
Flexural Yield Strength	270 MPa	39200 psi	1.3 mm/min, 50 mm span; ASTM D790
	270 MPa	39200 psi	2 mm/min; ISO 178
Flexural Modulus	9.30 GPa	1350 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.30 GPa	1350 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	0.680 J/cm	1.27 ft-lb/in	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Unnotched	11.0 J/cm	20.6 ft-lb/in	ASTM D4812
	9.50 J/cm	17.8 ft-lb/in	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/mÂ²	28.6 ft-lb/inÂ²	80*10*4; ISO 180/1U
	55.0 kJ/mÂ²	26.2 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 Âµm/m-Â°C	14.4 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	26.0 Âµm/m-Â°C	14.4 Âµin/in-Â°F	

Thermal Properties	Metric	English	ISO 11359-2 Comments
	@ Temperature -40.0 - 40.0 Â°C	@ Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	78.0 Âµm/m-Â°C	43.3 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)	220 Â°C	428 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 Â°C	428 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	210 Â°C	410 Â°F	Rate B/50; ASTM D1525
	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	500 - 10000 ohm-cm	500 - 10000 ohm-cm	SABIC Method

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