

SABIC Innovative Plastics NORYL GTX GTX675 PPE+PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Polyphenylene Ether/PPO

Material Notes:

Noryl GTX* GTX675 Resin is a blend of Polyphenylene Ether(PPE) + Polyamide(PA) resin that is mineral filled, conductive, and suitable for injection molding. The conductivity level is optimized to allow for primer-less electrostatic painting. The mineral content enables the material to be used in structural applications replacing metal or thermoset resins. The material is only available in black.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX675-PPEPA6.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 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	1.27 %	1.27 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm @Thickness 3.20 mm	0.0080 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13.6 g/10 min @Load 5.00 kg, Temperature 280 ^o C	13.6 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 5.00 kg, Temperature 280 ^o C	12 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	5 mm/min; ISO 527
	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	5 mm/min; ISO 527
	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D638
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	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	4.32 GPa	627 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 4.34 GPa	English 620 ksi	Comments 5 mm/min; ASTM D638
Flexural Yield Strength	106 MPa	15400 psi	1.3 mm/min, 50 mm span; ASTM D790
	108 MPa	15700 psi	2 mm/min; ISO 178
Flexural Modulus	3.92 GPa	569 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.22 GPa	612 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
	0.320 J/cm @Temperature -30.0 Â°C	0.599 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
	3.00 kJ/mÂ² @Temperature -30.0 Â°C	1.43 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 Âµm/m-Â°C	23.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C	25.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	50.0 Âµm/m-Â°C	27.8 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)	187 Â°C	369 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	187 Â°C	369 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
Vicat Softening Point	187 Â°C	369 Â°F	Rate B/120; ISO 306
	188 Â°C	370 Â°F	Rate B/50; ASTM D1525
	188 Â°C	370 Â°F	Rate B/50; ISO 306

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