

SABIC Innovative Plastics NORYL GTX GTX674PC PPE+PA6

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

Material Notes:

A conductive PPE/PA blend designed to have improved surface appearance and elevated heat resistance for powder coating. The material is suitable for injection molding. The material is only available in black.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX674PC-PPEPA6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.010 - 0.013 cm/cm @Thickness 3.20 mm	0.010 - 0.013 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 300 Â°C	25 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	50 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	Type I, 50 mm/min; ASTM D638
	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	2.81 GPa	408 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	103 MPa	14900 psi	2 mm/min; ISO 178
	109 MPa	15800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	2 mm/min; ISO 178
	2.89 GPa	419 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
	0.500 J/cm	0.937 ft-lb/in	

Mechanical Properties	Metric	English	ASTM D256 Comments
	@ Temperature -30.0 Â°C	@ Temperature -22.0 Â°F	
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	42.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	81.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	45.0 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	78.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	43.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	86.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	47.8 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	185 Â°C	365 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	188 Â°C @Thickness 3.20 mm	370 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	196 Â°C	385 Â°F	Rate B/120; ISO 306
	197 Â°C	387 Â°F	Rate B/50; ASTM D1525
	197 Â°C	387 Â°F	Rate B/50; ISO 306

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

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