

## SABIC Innovative Plastics NORYL GTX GTX679 PPE+PA6

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

### Material Notes:

Noryl GTX\* GTX679 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. GTX679 has improved impact/elongation and 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-GTX679-PPEPA6.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX679-PPEPA6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.700 %	0.700 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	3.6 %	3.6 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	16 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	14 g/10 min @Load 5.00 kg, Temperature 220 <sup>o</sup> C	14 g/10 min @Load 11.0 lb, Temperature 428 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	61.0 MPa	8850 psi	5 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	61.0 MPa	8850 psi	5 mm/min; ISO 527
	64.0 MPa	9280 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	5.0 %	5.0 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric <sup>Pa</sup>	English	Comments <sup>ASTM D638</sup>
	4.79 GPa	695 ksi	1 mm/min; ISO 527
Flexural Strength	108 MPa	15700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	109 MPa	15800 psi	2 mm/min; ISO 178
Flexural Modulus	4.00 GPa	580 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.44 GPa	644 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
	0.310 J/cm	0.581 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
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	59.5 Âµm/m-Â°C	33.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	59.5 Âµm/m-Â°C	33.1 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	64.9 Âµm/m-Â°C	36.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	64.9 Âµm/m-Â°C	36.1 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)	184 Â°C	363 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric 	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed, ASTM D648
Vicat Softening Point	185 Â°C	365 Â°F	Rate B/50; ASTM D1525
	185 Â°C	365 Â°F	Rate B/50; ISO 306
	188 Â°C	370 Â°F	Rate B/120; ISO 306

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