

SABIC Innovative Plastics NORYL GTX GTX986 PPE+PA66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Polyphenylene Ether/PPO

Material Notes:

Conductive GTX, CTE 6

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX986-PPEPA66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.800 %	0.800 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	3.0 %	3.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.010 - 0.014 cm/cm @Thickness 3.20 mm	0.010 - 0.014 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 5.00 kg, Temperature 280 ^o C	16 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D1238
Melt Index of Compound	13 g/10 min @Load 5.00 kg, Temperature 280 ^o C	13 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	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
	65.0 MPa	9430 psi	50 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
	65.0 MPa	9430 psi	50 mm/min; ISO 527
Elongation at Break	10 %	10 %	Type I, 50 mm/min; ASTM D638
	15 %	15 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	3.10 GPa	450 ksi	50 mm/min; ASTM D638

Mechanical Properties	3.70 GPa Metric	537 ksi English	1 mm/min; ISO 527 Comments
Flexural Yield Strength	80.0 MPa	11600 psi	1.3 mm/min, 50 mm span; ASTM D790
	100 MPa	14500 psi	2 mm/min; ISO 178
Flexural Modulus	2.80 GPa	406 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.70 GPa	537 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	0.600 J/cm @Temperature -30.0 Â°C	1.12 ft-lb/in @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
	6.00 kJ/mÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.30 J/cmÂ²	6.19 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 60.0 Â°C	@Temperature -40.0 - 140 Â°F	
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
CTE, linear, Transverse to Flow	65.0 Âµm/m-Â°C	36.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 60.0 Â°C	@Temperature -40.0 - 140 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
	192 Â°C	378 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	200 Â°C	392 Â°F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Vicat Softening Point	195 Å°C	383 Å°F	Rate B/50; ISO 306
	202 Å°C	396 Å°F	Rate B/50; ASTM D1525
	205 Å°C	401 Å°F	Rate B/120; ISO 306

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