SABIC Innovative Plastics Noryl GTX GTX966 PPE+PA66 (Asia Pacific)

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

Material Notes:

>PPE+PA66-I-TD10

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GTX-GTX966-PPEPA66-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D 792
Density	1.17 g/cc	0.0423 lb/inÂ³	ISO 1183
Moisture Absorption at Equilibrium	1.1 %	1.1 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	3.8 % @Temperature 23.0 Â°C	3.8 % @Temperature 73.4 Â°F	ISO 62
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	on tensile bar; SABIC Method
	0.010 - 0.012 cm/cm @Thickness 3.20 mm	0.010 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm @Thickness 3.20 mm	0.0090 - 0.011 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 280 Â°C	15 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D 1238
	20 g/10 min @Load 5.00 kg, Temperature 280 Â°C	20 g/10 min @Load 11.0 lb, Temperature 536 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D 638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 5 mm/min; ASTM D 638
	65.0 MPa	9430 psi	50 mm/min; ISO 527
Elongation at Break	20 %	20 %	50 mm/min; ISO 527
	40 %	40 %	Type I, 5 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Elongation at Yield	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D 638
	4.5 %	4.5 %	50 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	5 mm/min; ASTM D 638
	3.10 GPa	450 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.90 GPa	421 ksi	2 mm/min; ISO 178
	2.95 GPa	428 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.600 J/cm @Temperature 23.0 Â°C	1.12 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	0.600 J/cm @Temperature -30.0 Â°C	1.12 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
	7.00 kJ/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.800 J/cmÂ² @Temperature 23.0 Â°C	3.81 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	25.0 J @Temperature 23.0 Â°C	18.4 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	38.9 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
	71.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	39.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	75.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	41.7 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	79.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	43.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	190 Â°C	374 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	190 Â°C @Thickness 3.20 mm	374 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	195 Â°C	383 Â°F	Rate B/50; ISO 306
	200 Â°C	392 Â°F	Rate B/120; ISO 306
	200 Â°C	392 Â°F	Rate B/50; ASTM D 1525

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