

SABIC Innovative Plastics NORYL GTX GTX964W PPE+PS+PA

Category : Polymer , Thermoplastic , Nylon , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

Noryl GTX* GTX964W resin is a blend of Polyphenylene Ether and Polyamide resin with very high impact and high flow. The material was designed for large parts, body panels, and thinwall applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX964W-PPEPSA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Moisture Absorption at Equilibrium	1.19 %	1.19 %	50% RH; ASTM D570
	3.5 %	3.5 %	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	SABIC Method
Melt Index of Compound	7.0 g/10 min @Load 2.16 kg, Temperature 280 °C	7.0 g/10 min @Load 4.76 lb, Temperature 536 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
Tensile Strength, Yield	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
	56 %	56 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
	73.0 MPa	10600 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	2 mm/min; ISO 178
	1.83 GPa	265 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	5.28 J/cm	9.89 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	4.50 J/cm ²	21.4 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	41.0 J	30.2 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² - °F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	185 °C	365 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	175 °C	347 °F	Rate B/50; ISO 306
	180 °C	356 °F	Rate B/120; ISO 306
	240 °C	464 °F	Rate A/50; ISO 306

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