

SABIC Innovative Plastics NORYL GTX GTX909 PPE+PS+PA

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

Material Notes:

400F (205C) HDT. 3.3 Notched Izod. Excellent chemical resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX909-PPEPSA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.54 %	0.54 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	4.4 %	4.4 %	ASTM D570
Linear Mold Shrinkage, Flow	0.013 - 0.017 cm/cm	0.013 - 0.017 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	50 %	50 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	9.0 %	9.0 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	99.0 MPa	14400 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.37 GPa	344 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM D256
	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
	95.4 μm/m-°C	53.0 μin/in-°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @Temperature -20.0 - 150 °C	English @Temperature -4.00 - 302 °F	ASTM E 831 Comments
CTE, linear, Transverse to Flow	81.0 µm/m-°C @Temperature -20.0 - 150 °C	45.0 µin/in-°F @Temperature -4.00 - 302 °F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	204 °C @Thickness 6.40 mm	399 °F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	125 °C @Thickness 6.40 mm	257 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	245 °C	473 °F	Rate B/50; ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.40e+16 ohm-cm	4.40e+16 ohm-cm	ASTM D257
Surface Resistance	1.70e+16 ohm	1.70e+16 ohm	ASTM D257
Dielectric Constant	2.76 @Frequency 1.00e+6 Hz	2.76 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	3.27 @Frequency 50.0 - 60.0 Hz	3.27 @Frequency 50.0 - 60.0 Hz	ASTM D150
Dielectric Strength	25.5 kV/mm @Thickness 3.20 mm	648 kV/in @Thickness 0.126 in	in oil; ASTM D149
Dissipation Factor	0.019 @Frequency 1.00e+6 Hz	0.019 @Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	0.039 @Frequency 50.0 - 60.0 Hz	0.039 @Frequency 50.0 - 60.0 Hz	ASTM D150

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