

SABIC Innovative Plastics NORYL GTX GTX8410W PPE+PA

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

Material Notes:

High flow, 10% Glass Reinforced PPE+PA. Typically used in Automotive connectors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX8410W-PPEPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	36.5 g/10 min @Load 5.00 kg, Temperature 280 Â°C	36.5 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	94.0 MPa	13600 psi	Nominal Stress, brk, Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	95.0 MPa	13800 psi	Nominal Stress, yld, Type I, 5 mm/min; ASTM D638
Elongation at Break	3.8 %	3.8 %	Nominal Strain, 5 mm/min; ASTM D638
Elongation at Yield	3.6 %	3.6 %	Nominal Strain, 5 mm/min; ASTM D638
Tensile Modulus	3.59 GPa	521 ksi	5 mm/min; ASTM D638
Flexural Strength	152 MPa	22000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.10 GPa	595 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
	0.370 J/cm @Temperature -30.0 Â°C	0.693 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Unnotched	4.85 J/cm	9.09 ft-lb/in	ASTM D4812
	4.96 J/cm	9.29 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D3763
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	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	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	124 Âµm/m-Â°C	68.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	252 Â°C	486 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	238 Â°C	460 Â°F	Rate B/50; ASTM D1525

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