

SABIC Innovative Plastics NORYL GTX GTX9400W PPE+PS+PA

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

Material Notes:

High flow PPO+PA. Power distribution box applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX9400W-PPEPSA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.012 - 0.014 cm/cm @Thickness 3.20 mm	0.012 - 0.014 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.011 - 0.014 cm/cm @Thickness 3.20 mm	0.011 - 0.014 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	97 g/10 min @Load 5.00 kg, Temperature 280 Â°C	97 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D638
	69.0 MPa	10000 psi	50 mm/min; ISO 527
Elongation at Break	39 %	39 %	5 mm/min; ISO 527
	40 %	40 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	11 %	11 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.95 GPa	283 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	100 MPa	14500 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.35 GPa	341 ksi	2.6 mm/min, 100 mm span; ASTM D790
	2.70 GPa	392 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.56 J/cm	4.80 ft-lb/in	ASTM D256
	1.12 J/cm @Temperature -30.0 Â°C	2.10 ft-lb/in @Temperature -22.0 Â°F	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	8.49 J/cm	15.0 ft-lb/in	ASTM D4812
	7.68 J/cm	14.4 ft-lb/in	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D4812
Izod Impact, Notched (ISO)	21.0 kJ/mÂ²	9.99 ft-lb/inÂ²	80*10*4; ISO 180/1A
	13.0 kJ/mÂ²	6.19 ft-lb/inÂ²	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	80*10*4; ISO 180/1A
	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	80*10*4; ISO 180/1A
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	43.0 J	31.7 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	122 Âµm/m-Â°C	67.8 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	142 Âµm/m-Â°C	78.9 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)	187 Â°C	369 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	190 Â°C	374 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	202 Â°C	396 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Â°C	172 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	83.0 Â°C	181 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
	170 Â°C	338 Â°F	

Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	unannealed; ASTM D648 Comments
Vicat Softening Point	203 Â°C	397 Â°F	Rate B/50; ISO 306
	212 Â°C	414 Â°F	Rate B/50; ASTM D1525

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