

SABIC Innovative Plastics NORYL GTX GTX810 PPE+PS+PA

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

Material Notes:

10% Glass Reinforced PPE+PA Alloy.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX810-PPEPSA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Density	1.162 g/cc	0.04198 lb/in ³	ASTM D792
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
Moisture Absorption at Equilibrium	1.0 %	1.0 %	50% RH; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0065 - 0.0085 cm/cm	0.0065 - 0.0085 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	88.0 MPa	12800 psi	Nominal Stress, brk, Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	89.0 MPa	12900 psi	Nominal Stress, yld, Type I, 5 mm/min; ASTM D638
Elongation at Break	10 %	10 %	Nominal Strain, 5 mm/min; ASTM D638
Flexural Yield Strength	155 MPa	22500 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	3.96 GPa	574 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	0.530 J/cm @Temperature -30.0 °C	0.993 ft-lb/in @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
	39.6 - 50.4 Âµm/m-Â°C	22.0 - 28.0 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
	@ Temperature -20.0 - 150 Â°C	@ Temperature -4.00 - 302 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	245 Â°C @Thickness 6.40 mm	473 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C @Thickness 6.40 mm	410 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	240 Â°C	464 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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