

SABIC Innovative Plastics NORYL GTX GTX820 PPE+PS+PA

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

Material Notes:

GR 20%. Higher stiffness of 800000 psi (4000 MPa) flexural modulus. Excellent chemical and high heat resistance. Application: valves.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX820-PPEPSA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Density	1.245 g/cc	0.04498 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption	1.00 %	1.00 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 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
Flexural Yield Strength	194 MPa	28100 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	5.96 GPa	864 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 Â°C	0.993 ft-lb/in @Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 - 39.6 Âµm/m-Â°C	17.0 - 22.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -20.0 - 150 Â°C	@Temperature -4.00 - 302 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	254 Â°C	489 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	248 °C @Thickness 6.40 mm	478 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	248 °C	478 °F	Rate B/50; ASTM D1525

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