

SABIC Innovative Plastics NORYL GTX GTX870 PPE+PA6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Polyphenylene Ether/PPO

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX870-PPEPA6-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	117 MPa	17000 psi	SABIC - Japan Method
	122 MPa	17700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
	12 %	12 %	SABIC - Japan Method
Flexural Strength	166 MPa	24100 psi	ASTM D790
Flexural Modulus	5.68 GPa	824 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 - 60.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature -30.0 - 30.0 $^{\circ}\text{C}$	22.2 - 33.3 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature -22.0 - 86.0 $^{\circ}\text{F}$	TMA
Deflection Temperature at 1.8 MPa (264 psi)	200 $^{\circ}\text{C}$ @Thickness 6.40 mm	392 $^{\circ}\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648

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