

SABIC Innovative Plastics NORYL GTX GTX8120P PPE+PA (Europe-Africa-Middle East)

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

Material Notes:

GTX8120P is a glass filled extrudable Noryl GTX with low thermal conductivity, suitable for thermal breaks

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX8120P-PPEPA-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption	1.00 %	1.00 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	2.5 %	2.5 %	ISO 62
Melt Index of Compound	4.0 g/10 min @Load 10.0 kg, Temperature 280 ^o C	4.0 g/10 min @Load 22.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	5 mm/min; ISO 527
Tensile Strength, Yield	125 MPa	18100 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	6.80 GPa	986 ksi	1 mm/min; ISO 527
Flexural Yield Strength	175 MPa	25400 psi	2 mm/min; ISO 178
Flexural Modulus	5.00 GPa	725 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0 ^o C	2.86 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 μ m/m- ^o C @Temperature 23.0 -	19.4 μ in/in- ^o F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	60.0 °C Metric	140 °F English	Comments
CTE, linear, Transverse to Flow	75.0 µm/m-°C @Temperature 23.0 - 60.0 °C	41.7 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Vicat Softening Point	235 °C	455 °F	Rate B/50; ISO 306
	235 °C	455 °F	Rate B/120; ISO 306

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