

SABIC Innovative Plastics NORYL GTX GTX230 PPE+PA66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Polyphenylene Ether/PPO

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX230-PPEPA66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.900 %	0.900 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	2.5 %	2.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm @Thickness 3.20 mm	0.0030 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.011 cm/cm @Thickness 3.20 mm	0.0050 - 0.011 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	15 g/10 min @Load 5.00 kg, Temperature 280 ^o C	15 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	1 mm/min; ISO 527
Flexural Yield Strength	140 MPa	20300 psi	2 mm/min; ISO 178
Flexural Modulus	7.50 GPa	1090 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 ^o C	1.90 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
	20.0 μ m/m- ^o C	11.1 μ in/in- ^o F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@ Temperature 23.0 - 60.0 Â°C	@ Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	240 Â°C	464 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Vicat Softening Point	195 Â°C	383 Â°F	Rate B/50; ISO 306
	190 Â°C	374 Â°F	Rate B/120; ISO 306

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