

SABIC Innovative Plastics NORYL GFN2 PPE+HIPS (Asia Pacific)

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

Material Notes:

PPE+PS blend. 20% Glass reinforced. FDA compliance (restrictions apply). Low water absorption. Hydrolytic stability. Dimensional stability. Suitable for fluid engineering applications including pump housings and impellers, valve components and others.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GFN2-PPEHIPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption	0.12 %	0.12 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption	0.0400 %	0.0400 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	SABIC Method
Melt Flow	11.7 g/10 min	11.7 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 300 Â°C	@Load 11.0 lb, Temperature 572 Â°F	
Melt Index of Compound	2.0 g/10 min	2.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	88.0 MPa	12800 psi	Type I, 10 mm/min; SABIC - Japan Method
	90.0 MPa	13100 psi	5 mm/min; ISO 527
	100 MPa	14500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Elongation at Yield	6.0 - 8.0 %	6.0 - 8.0 %	Type I, 10 mm/min; SABIC - Japan Method
Tensile Modulus	6.00 GPa	870 ksi	1 mm/min; ISO 527
	6.50 GPa	943 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric ^{°Pa}	English ^{psi}	Comments ^{2.5 mm/min, 100 mm span; ASTM D790}
	150 MPa	21800 psi	2 mm/min; ISO 178
Flexural Modulus	5.40 GPa	783 ksi	2 mm/min; ISO 178
	5.57 GPa	808 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.880 J/cm	1.65 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.50 J/cm	10.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ^Å ²	4.76 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
	9.00 kJ/m ^Å ²	4.28 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Unnotched (ISO)	30.0 kJ/m ^Å ²	14.3 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.800 J/cm ^Å ²	3.81 ft-lb/in ^Å ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	20.0 J	14.8 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 - 45.0 Åµm/m-Å°C	15.6 - 25.0 Åµin/in-Å°F	TMA
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	135 Å°C	275 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 Å°C	279 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	138 Å°C	280 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	140 Å°C	284 Å°F	Rate B/50; ISO 306
	147 Å°C	297 Å°F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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