

SABIC Innovative Plastics NORYL GTX GTX942 PPE+PS+PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

Noryl GTX* GTX942 Resin is a blend of Polyphenylene Ether(PPE) + Polyamide(PA) resin that is designed to have high melt flow for large part/thinwall injection molding. The material is designed to have the excellent chemical resistance and paintability as other Noryl GTX Resins.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX942-PPEPSA66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183
Moisture Absorption	0.520 %	0.520 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	1.01 %	1.01 %	ISO 62
Linear Mold Shrinkage, Flow	0.0113 - 0.0126 cm/cm @Thickness 3.20 mm	0.0113 - 0.0126 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	18.5 g/10 min @Load 5.00 kg, Temperature 280 ^o C	18.5 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D1238
Melt Index of Compound	17 g/10 min @Load 5.00 kg, Temperature 280 ^o C	17 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	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
	54.0 MPa	7830 psi	50 mm/min; ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
	58.0 MPa	8410 psi	50 mm/min; ISO 527
Elongation at Break	43.9 %	43.9 %	Type I, 50 mm/min; ASTM D638
	58.2 %	58.2 %	50 mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	Type I, 50 mm/min; ASTM D638
	7.1 %	7.1 %	50 mm/min; ISO 527
Tensile Modulus	2.44 GPa	354 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric 2.58 GPa	English 372 ksi	Comments 1 mm/min; ISO 527
Flexural Yield Strength	87.0 MPa	12600 psi	1.3 mm/min, 50 mm span; ASTM D790
	88.0 MPa	12800 psi	2 mm/min; ISO 178
Flexural Modulus	2.22 GPa	322 ksi	2 mm/min; ISO 178
	2.26 GPa	328 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.65 J/cm	4.96 ft-lb/in	ASTM D256
	1.17 J/cm @Temperature -30.0 Â°C	2.19 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	22.0 kJ/mÂ²	10.5 ft-lb/inÂ²	80*10*4; ISO 180/1A
	15.0 kJ/mÂ² @Temperature -30.0 Â°C	7.14 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.30 J/cmÂ²	10.9 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	46.0 J	33.9 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	
CTE, linear, Transverse to Flow	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
CTE, linear, Transverse to Flow	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	154 Â°C	309 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	160 Â°C	320 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
Vicat Softening Point	169 Â°C	336 Â°F	Rate B/50; ISO 306
	169 Â°C	336 Â°F	Rate B/120; ISO 306
	171 Â°C	340 Â°F	Rate B/50; ASTM D1525

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