

SABIC Innovative Plastics NORYL GTX NX0031 PPE+PA

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

Material Notes:

NORYL GTX* NX0031 resin is a conductive resin specially designed for electrostatic painting and powder coating applications. This material combines high impact, good flow and conductivity. The material is only available in black and is suitable for injection molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-NX0031-PPEPA.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	1.20 %	1.20 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	4.2 %	4.2 %	ISO 62
Linear Mold Shrinkage, Flow	0.013 - 0.016 cm/cm @Thickness 3.20 mm	0.013 - 0.016 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	8.0 g/10 min @Load 5.00 kg, Temperature 280 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 536 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D638
	48.0 MPa	6960 psi	50 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
	34 %	34 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527

Mechanical Properties	2.25 GPa Metric	326 ksi English	5 mm/min: ASTM D638 Comments
Flexural Yield Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178
	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
	2.10 GPa	305 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.24 J/cm	4.20 ft-lb/in	ASTM D256
	1.17 J/cm	2.19 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	80*10*4; ISO 180/1A
	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	42.0 J	31.0 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

Thermal Properties	176 Â°C Metric	349 Â°F English	Comments
Tensile Strength at 0.46 MPa (66 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 Â°C @Thickness 3.20 mm	277 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	175 Â°C	347 Â°F	Rate B/50; ASTM D1525
	175 Â°C	347 Â°F	Rate B/50; ISO 306
	180 Â°C	356 Â°F	Rate B/120; ISO 306

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