SABIC Innovative Plastics NORYL GTX GTX975 PPE+PA (Asia Pacific)

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

Material Notes:

NORYL GTX975 is a 18% mineral filled material especially designed for in- or on-line painted exterior automotive trim part, e.g. tankflaps and corner panels. This material combines high stiffness and excellent temperature resistance with conductivity for electrostatic painting in an unique way.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX975-PPEPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/inÂ³	ISO 1183
Moisture Absorption	1.10 %	1.10 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	3.5 %	3.5 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm @Thickness 3.20 mm	0.0080 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 280 Â°C	15 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 280 Â°C	10 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	65.0 MPa	9430 psi	5 mm/min; ISO 527
	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	5 mm/min; ISO 527
	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527
	4.5 %	4.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
	3.5 %	3.5 %	5 mm/min; ISO 527
Tensile Modulus	4.20 GPa	609 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	4.45 GPa	645 ksi	5 mm/min; ASTM D638
Flexural Strength	110 MPa	16000 psi	2 mm/min; ISO 178
Flexural Yield Strength	113 MPa	16400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.00 GPa	580 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	0.300 J/cm @Temperature -30.0 Â°C	0.562 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
	4.00 kJ/mÂ² @Temperature -30.0 Â°C	1.90 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/mÂ²	19.0 ft-lb/inÂ²	80*10*4; ISO 180/1U
	35.0 kJ/mÂ² @Temperature -30.0 Â°C	16.7 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	3.50 J/cmÂ² @Temperature -30.0 Â°C	16.7 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.300 J/cmÂ² @Temperature -30.0 Â°C	1.43 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 Âµm/m-Â°C @Temperature 23.0 -	27.8 Âµin/in-Â°F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	Metric	English	Comments
	60.0 Â°C	140 Â°F	
	54.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	33.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	65.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	36.1 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	185 Â°C	365 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	210 Â°C @Thickness 3.20 mm	410 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	195 Â°C	383 Â°F	Rate B/50; ISO 306
	200 Â°C	392 Â°F	Rate B/120; ISO 306
	215 Â°C	419 Â°F	Rate B/50; ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 10000 ohm-cm	1000 - 10000 ohm-cm	SABIC Method

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