SABIC Innovative Plastics Noryl GTX GTX9200 PPE+PS+PA66 (Europe-Africa-Middle East)

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

Material Notes:

High Flow GTX for Automotive applicationsThis data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GTX-GTX9200-PPEPSPA66-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D 792
Density	1.09 g/cc	0.0394 lb/inÂ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.55 % @Temperature 23.0 Â°C	0.55 % @Temperature 73.4 Â°F	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	22 g/10 min @Load 5.00 kg, Temperature 220 Â°C	22 g/10 min @Load 11.0 lb, Temperature 428 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133
	24 g/10 min @Load 3.80 kg, Temperature 200 Â°C	24 g/10 min @Load 8.38 lb, Temperature 392 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	50 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D 638
	56.0 MPa	8120 psi	50 mm/min; ISO 527
Elongation at Break	42.9 %	42.9 %	50 mm/min; ISO 527
	49.5 %	49.5 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	7.5 %	7.5 %	50 mm/min; ISO 527
	10.6 %	10.6 %	Type I, 50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.13 GPa	309 ksi	5 mm/min; ASTM D 638
	2.38 GPa	345 ksi	1 mm/min; ISO 527
Flexural Yield Strength	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D 790
	87.0 MPa	12600 psi	2 mm/min; ISO 178
Flexural Modulus	2.21 GPa	321 ksi	2 mm/min; ISO 178
	2.31 GPa	335 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.36 J/cm @Temperature -30.0 Â°C	2.55 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	2.51 J/cm @Temperature 23.0 Â°C	4.70 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	17.0 kJ/mÂ² @Temperature -30.0 Â°C	8.09 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	25.0 kJ/mÂ² @Temperature 23.0 Â°C	11.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.80 J/cmÂ² @Temperature 23.0 Â°C	13.3 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	56.0 J @Temperature 23.0 Â°C	41.3 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	50.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	100 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	55.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	50.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	27.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
	70.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	156 Â°C	313 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	156 Â°C @Thickness 3.20 mm	313 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	168 Â°C	334 Â°F	Rate B/50; ASTM D 1525
	168 Â°C	334 Â°F	Rate B/50; ISO 306
	169 Â°C	336 Â°F	Rate B/120; ISO 306

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