

SABIC Innovative Plastics NORYL GTX GTX6203 PPE+PA (Asia Pacific)

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

Material Notes:

NORYL GTX6203 is a 20% talc filled material with superior dimensional stability, excellent processability and surface appearance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX6203-PPEPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption	1.10 %	1.10 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	3.2 %	3.2 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm @Thickness 3.20 mm	0.0060 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm @Thickness 3.20 mm	0.0060 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	20 g/10 min @Load 5.00 kg, Temperature 280 ^o C	20 g/10 min @Load 11.0 lb, Temperature 536 ^o F	ASTM D1238
Melt Index of Compound	20 g/10 min @Load 5.00 kg, Temperature 280 ^o C	20 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	60.0 MPa	8700 psi	50 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	10 %	10 %	5 mm/min; ISO 527
	10 %	10 %	50 mm/min; ISO 527
Elongation at Yield	2.5 %	2.5 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Type I, 5 mm/min; ASTM D638 Comments
Tensile Modulus	4.60 GPa	667 ksi	5 mm/min; ASTM D638
	4.90 GPa	711 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.80 GPa	551 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.00 GPa	580 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	0.500 J/cm	0.937 ft-lb/in	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/mÂ²	23.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	
	@Temperature 23.0 -	@Temperature 73.4 -	ISO 11359-2

Thermal Properties	80.0 Å°C Metric	176 Å°F English	Comments
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ftÅ²-Å°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	190 Å°C	374 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	190 Å°C @Thickness 3.20 mm	374 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	185 Å°C	365 Å°F	Rate B/50; ASTM D1525
	190 Å°C	374 Å°F	Rate B/50; ISO 306
	190 Å°C	374 Å°F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Å°C +/- 2Å°C	PASSES	IEC 60695-10-2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China