

## SABIC Innovative Plastics Noryl GTX GTX9200 PPE+PS+PA66

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

### Material Notes:

High Flow GTX for Automotive applications This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Noryl-GTX-GTX9200-PPEPSA66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GTX-GTX9200-PPEPSA66.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/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.55 % @Temperature 23.0 <sup>o</sup> C	0.55 % @Temperature 73.4 <sup>o</sup> 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 <sup>o</sup> C	22 g/10 min @Load 11.0 lb, Temperature 428 <sup>o</sup> F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133
	24 g/10 min @Load 3.80 kg, Temperature 200 <sup>o</sup> C	24 g/10 min @Load 8.38 lb, Temperature 392 <sup>o</sup> 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
Tensile Modulus	2.13 GPa	309 ksi	5 mm/min; ASTM D 638

Mechanical Properties	Metric Pa	English	Comments 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	2.55 ft-lb/in	ASTM D 256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	2.51 J/cm	4.70 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched (ISO)	17.0 kJ/mÅ²	8.09 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	25.0 kJ/mÅ²	11.9 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact, Notched	2.80 J/cmÅ²	13.3 ft-lb/inÅ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact Test	56.0 J	41.3 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	50.0 Åµm/m-Å°C	27.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ASTM E 831 Comments
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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