

## SABIC Innovative Plastics NORYL GTX GTX987 PPE+PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Polyphenylene Ether/PPO

### Material Notes:

Conductive GTX, CTE 7

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[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-GTX-GTX987-PPEPA66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX987-PPEPA66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.900 %	0.900 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	3.0 %	3.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.010 - 0.014 cm/cm @Thickness 3.20 mm	0.010 - 0.014 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.5 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	8.5 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	7.0 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	7.0 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
	62.0 MPa	8990 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
	62.0 MPa	8990 psi	50 mm/min; ISO 527
Elongation at Break	15 %	15 %	Type I, 50 mm/min; ASTM D638
	20 %	20 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
	3.25 GPa	471 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.80 GPa	406 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	0.700 J/cm @Temperature -30.0 Â°C	1.31 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	15.0 kJ/mÂ²	7.14 ft-lb/inÂ²	80*10*4; ISO 180/1A
	8.00 kJ/mÂ² @Temperature -30.0 Â°C	3.81 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 Âµm/m-Â°C	30.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 60.0 Â°C	@Temperature -40.0 - 140 Â°F	
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C	38.9 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	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 60.0 Â°C	@Temperature -40.0 - 140 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	75.0 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	190 Â°C	374 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	185 Â°C @Thickness 3.20 mm	365 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Vicat Softening Point Thermal Properties	192 Â°C Metric	378 Â°F English	Rate B/50; ASTM D1525 Comments
	198 Â°C	388 Â°F	Rate B/50; ISO 306
	200 Â°C	392 Â°F	Rate B/120; ISO 306

## Contact Songhan Plastic Technology Co.,Ltd.

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