

## SABIC Innovative Plastics NORYL GTX GTX8408 PPE+PA

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

### Material Notes:

Noryl GTX\* GTX8408 Resin is a blend of Polyphenylene Ether(PPE) + Polyamide(PA) resin that is glass filled and suitable for injection molding. The elongation of this material is higher than GTX8410W. The glass content enables the material to be used in structural applications and electrical connectors.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-GTX-GTX8408-PPEPA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX8408-PPEPA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.350 %	0.350 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 %	0.35 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	26.3 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	26.3 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	22 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	22 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	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638
	82.0 MPa	11900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	84.0 MPa	12200 psi	Type I, 5 mm/min; ASTM D638
	87.0 MPa	12600 psi	5 mm/min; ISO 527
Elongation at Break	10 %	10 %	5 mm/min; ISO 527
	10.2 %	10.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.3 %	4.3 %	Type I, 5 mm/min; ASTM D638
	4.5 %	4.5 %	5 mm/min; ISO 527
Tensile Modulus	3.56 GPa	516 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric 4.00 GPa	English 580 ksi	Comments 1 mm/min; ISO 527
Flexural Yield Strength	92.0 MPa	13300 psi	1.3 mm/min, 50 mm span; ASTM D790
	133 MPa	19300 psi	2 mm/min; ISO 178
Flexural Modulus	3.32 GPa	482 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.52 GPa	511 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.820 J/cm	1.54 ft-lb/in	ASTM D256
	0.450 J/cm @Temperature -30.0 Â°C	0.843 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
	3.00 kJ/mÂ² @Temperature -30.0 Â°C	1.43 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.3 Âµm/m-Â°C	37.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	68.3 Âµm/m-Â°C	37.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	84.6 Âµm/m-Â°C	47.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	84.6 Âµm/m-Â°C	47.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	240 Â°C	464 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	239 Â°C	462 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
Vicat Softening Point	224 Â°C	435 Â°F	Rate B/50; ASTM D1525
	224 Â°C	435 Â°F	Rate B/50; ISO 306
	224 Â°C	435 Â°F	Rate B/120; ISO 306

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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