

## SABIC Innovative Plastics Noryl GTX GTX8430W PPE+PA

Category : Polymer , Thermoplastic , Polyester, TP , Polyphenylene Ether/PPO

### Material Notes:

30% Glass Reinforced PPE+PA Alloy. Typically used for automotive connectors. 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-GTX8430W-PPEPA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GTX-GTX8430W-PPEPA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0070 - 0.012 cm/cm @Thickness 3.20 mm	0.0070 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	39 g/10 min @Load 5.00 kg, Temperature 280 Å°C	39 g/10 min @Load 11.0 lb, Temperature 536 Å°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	179 MPa	26000 psi	Nominal Stress, brk, Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	165 MPa	23900 psi	Nominal Stress, yld, Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.0 %	3.0 %	Nominal Strain, 5 mm/min; ASTM D 638
Elongation at Yield	3.0 %	3.0 %	Nominal Strain, 5 mm/min; ASTM D 638
Tensile Modulus	8.48 GPa	1230 ksi	5 mm/min; ASTM D 638
Flexural Strength	262 MPa	38000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	8.68 GPa	1260 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.850 J/cm @Temperature -30.0 Å°C	1.59 ft-lb/in @Temperature -22.0 Å°F	ASTM D 256
	0.900 J/cm @Temperature 23.0 Å°C	1.69 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256

Mechanical Properties <i>Izod Impact, Unnotched</i>	8.43 J/cm Metric	15.8 ft-lb/in English	Comments ASTM D 4812
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	8.49 J/cm @Temperature 23.0 Â°C	15.9 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Impact Test	6.00 J @Temperature -30.0 Â°C	4.43 ft-lb @Temperature -22.0 Â°F	Instrumented Impact Total Energy; ASTM D 3763
	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	19.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	104 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	57.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	256 Â°C @Thickness 3.20 mm	493 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	240 Â°C @Thickness 3.20 mm	464 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	244 Â°C	471 Â°F	Rate B/50; ASTM D 1525

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