

## SABIC Innovative Plastics NORYL GTX GTX902 PPE+PS+PA

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

### Material Notes:

Unreinforced. Excellent chemical resistance and paintability. 312F (155C) HDT.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-GTX-GTX902-PPEPSA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX902-PPEPSA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	3.6 %	3.6 %	ASTM D570
Linear Mold Shrinkage, Flow	0.011 - 0.015 cm/cm	0.011 - 0.015 in/in	annealed 130C 1hr; ASTM D955
	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	52 %	52 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	9.0 %	9.0 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	89.0 MPa	12900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.72 J/cm	5.10 ft-lb/in	ASTM D256
	0.530 J/cm	0.993 ft-lb/in	
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	ASTM D256
	1.17 J/cm	2.19 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	Comments
Izod Impact, Unnotched	32.04 J/cm	60.02 ft-lb/in	ASTM D4812
	32.04 J/cm @Temperature -30.0 Â°C	60.02 ft-lb/in @Temperature -22.0 Â°F	ASTM D4812
	32.04 J/cm @Temperature -40.0 Â°C	60.02 ft-lb/in @Temperature -40.0 Â°F	ASTM D4812
Dart Drop, Total Energy	46.0 J	33.9 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	19.0 J @Temperature -40.0 Â°C	14.0 ft-lb @Temperature -40.0 Â°F	Instrumented Impact Energy @ peak; ASTM D3763
	36.0 J @Temperature -30.0 Â°C	26.6 ft-lb @Temperature -22.0 Â°F	Instrumented Impact Energy @ peak; ASTM D3763
Taber Abrasion, mg/1000 Cycles	19	19	CS-17, 1 kg; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C @Temperature -20.0 - 150 Â°C	50.0 Âµin/in-Â°F @Temperature -4.00 - 302 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	155 Â°C @Thickness 6.40 mm	311 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C @Thickness 6.40 mm	261 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	232 Â°C	450 Â°F	Rate A/50; ASTM D1525
	232 Â°C	450 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	HB @Thickness 1.49 mm	HB @Thickness 0.0587 in	UL 94

## **Contact Songhan Plastic Technology Co.,Ltd.**

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