

SABIC Innovative Plastics Noryl GTX GTX918WR PPE+PS+PA (Asia Pacific)

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

Material Notes:

High flow PPE+PS+PA for under-the-hood and electrical applications. With mold release
This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-GTX-GTX918WR-PPEPSA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D 792
Water Absorption at Saturation	4.2 % @Temperature 23.0 Â°C	4.2 % @Temperature 73.4 Â°F	ASTM D 570
Linear Mold Shrinkage, Flow	0.013 - 0.016 cm/cm @Thickness 3.20 mm	0.013 - 0.016 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.010 - 0.013 cm/cm @Thickness 3.20 mm	0.010 - 0.013 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.0 g/10 min @Load 1.20 kg, Temperature 280 Â°C	5.0 g/10 min @Load 2.65 lb, Temperature 536 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133
	45 g/10 min @Load 5.00 kg, Temperature 280 Â°C	45 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	50 mm/min; ISO 527
	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
	53 %	53 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
	11.4 %	11.4 %	Type I, 50 mm/min; ASTM D 638

Tensile Modulus Mechanical Properties	0.810 GPa Metric	117 ksi English	50 mm/min; ASTM D 638 Comments
Flexural Yield Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178
	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
	2.36 GPa	342 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.02 J/cm @Temperature 23.0 Â°C	3.78 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature -30.0 Â°C	4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	20.0 kJ/mÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.00 J/cmÂ² @Temperature -30.0 Â°C	4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	2.00 J/cmÂ² @Temperature 23.0 Â°C	9.52 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	40.0 J @Temperature 23.0 Â°C	29.5 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	36.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	80.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	44.4 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	68.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	

Thermal Properties	Metric @Temperature 23.0 - 80.0 Â°C	English @Temperature 73.4 - 149 Â°F	ISO 11359-2 Comments
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ftÂ²- Â°F	ASTM C 177
Deflection Temperature at 0.46 MPa (66 psi)	185 Â°C	365 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	188 Â°C	370 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	148 Â°C	298 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	190 Â°C	374 Â°F	Rate B/50; ISO 306
	195 Â°C	383 Â°F	Rate B/120; ISO 306
	242 Â°C	468 Â°F	Rate B/50; ASTM D 1525
	245 Â°C	473 Â°F	Rate A/50; ISO 306

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