

## SABIC Innovative Plastics NORYL GTX GTX918WR PPE+PA (Asia Pacific)

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

### Material Notes:

High flow PPE+PA for under-the-hood and electrical applications. With mold release

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-GTX-GTX918WR-PPEPA-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-GTX-GTX918WR-PPEPA-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption at Saturation	4.2 %	4.2 %	ASTM D570
Linear Mold Shrinkage, Flow	0.013 - 0.016 cm/cm	0.013 - 0.016 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.010 - 0.013 cm/cm	0.010 - 0.013 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	45 g/10 min	45 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 280 Å°C	@Load 11.0 lb, Temperature 536 Å°F	
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 280 Å°C	@Load 2.65 lb, Temperature 536 Å°F	

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 D638
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
	53 %	53 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
	11.4 %	11.4 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	0.810 GPa	117 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
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 D790
Izod Impact, Notched	2.02 J/cm	3.78 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.8 Åµm/m-Å°C	36.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	68.4 Åµm/m-Å°C	38.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft <sup>2</sup> - Å°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	185 Å°C	365 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	188 Å°C	370 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa	148 Å°C	298 Å°F	

Thermal Properties <small>(264 psi)</small>	Metric <small>@ Thickness 3.20 mm</small>	English <small>@ Thickness 0.126 in</small>	unannealed; ASTM D648 Comments
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 D1525
	245 Â°C	473 Â°F	Rate A/50; ISO 306

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