

## SABIC Innovative Plastics NORYL EXNL1117 PPE+HIPS

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

### Material Notes:

high gloss Noryl

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-EXNL1117-PPEHIPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EXNL1117-PPEHIPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 280 Â°C	25 g/10 min @Load 4.76 lb, Temperature 536 Â°F	ASTM D1238
Melt Index of Compound	25 g/10 min @Load 2.16 kg, Temperature 280 Â°C	25 g/10 min @Load 4.76 lb, Temperature 536 Â°F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D638
	60.0 MPa	8700 psi	50 mm/min; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	50 mm/min; ISO 527
	67.0 MPa	9720 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	4.4 %	4.4 %	50 mm/min; ISO 527
	5.2 %	5.2 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.3 %	3.3 %	50 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.56 GPa	371 ksi	5 mm/min; ASTM D638
	2.81 GPa	408 ksi	1 mm/min; ISO 527
Flexural Yield Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.65 GPa	384 ksi	2 mm/min; ISO 178
	2.73 GPa	396 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	0.200 J/cm	0.375 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	30.0 J	22.1 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.0 µm/m-°C	42.8 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	77.0 µm/m-°C	42.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	79.0 µm/m-°C	43.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	79.0 µm/m-°C	43.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	75.0 °C	167 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	96.0 °C	205 °F	Rate B/50; ASTM D1525

Thermal Properties	96.0 Â°C Metric	205 Â°F English	Rate B/50: ISO 306 Comments
	98.0 Â°C	208 Â°F	Rate B/120; ISO 306
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94 by SABIC-IP
	V-0 @Thickness 2.50 mm	V-0 @Thickness 0.0984 in	UL 94 by SABIC-IP

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