

## SABIC Innovative Plastics Noryl PX0346 PPE+PS

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

### Material Notes:

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-PX0346-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-PX0346-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D 792
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.050 %	0.050 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 % @Temperature 23.0 <sup>o</sup> C	0.25 % @Temperature 73.4 <sup>o</sup> F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	19 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	19 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133
	19.6 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	19.6 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	66.0 MPa	9570 psi	50 mm/min; ISO 527
	76.0 MPa	11000 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D 638
	66.0 MPa	9570 psi	50 mm/min; ISO 527
Elongation at Break	2.4 %	2.4 %	50 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	2.7 %	2.7 %	Type I, 50 mm/min; ASTM D 638
	66.1 %	66.1 %	50 mm/min; ISO 527
Tensile Modulus	2.93 GPa	425 ksi	5 mm/min; ASTM D 638

Mechanical Properties	Metric Pa	English	Comments ISO 527
Flexural Yield Strength	91.0 MPa	13200 psi	1.3 mm/min, 50 mm span; ASTM D 790
	107 MPa	15500 psi	2 mm/min; ISO 178
Flexural Modulus	3.08 GPa	447 ksi	2 mm/min; ISO 178
	3.23 GPa	468 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.170 J/cm @Temperature -30.0 Â°C	0.318 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	0.240 J/cm @Temperature 23.0 Â°C	0.450 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	1.00 kJ/mÂ² @Temperature 23.0 Â°C	0.476 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
	2.00 kJ/mÂ² @Temperature -30.0 Â°C	0.952 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.200 J/cmÂ² @Temperature 23.0 Â°C	0.952 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	2.00 J @Temperature 23.0 Â°C	1.48 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.7 Âµm/m-Â°C	37.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	66.8 Âµm/m-Â°C	37.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	70.7 Âµm/m-Â°C	39.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	70.7 Âµm/m-Â°C	39.3 Âµin/in-Â°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ISO 11359-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	125 Â°C @Thickness 3.20 mm	257 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	145 Â°C	293 Â°F	Rate B/50; ASTM D 1525
	145 Â°C	293 Â°F	Rate B/50; ISO 306
	145 Â°C	293 Â°F	Rate B/120; ISO 306

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