

## SABIC Innovative Plastics NORYL PX4605 PPE+PS

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

### Material Notes:

PPE+PS blend. 20% Glass reinforced. High heat. Dimensional stability. Suitable for automotive and E/E applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-PX4605-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-PX4605-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	112 MPa	16200 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.4 %	2.4 %	ASTM D638
Tensile Modulus	7.56 GPa	1100 ksi	5 mm/min; ASTM D638
Flexural Strength	170 MPa	24700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	148 MPa	21500 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	5.24 GPa	760 ksi	2.6 mm/min, 100 mm span; ASTM D790
	5.52 GPa	801 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
	1.00 J/cm @Temperature -40.0 Å°C	1.87 ft-lb/in @Temperature -40.0 Å°F	ASTM D256
Dart Drop, Total Energy	20.0 J	14.8 ft-lb	ASTM D3763

Mechanical Properties	@Temperature 23.0 Metric	@Temperature 73.4 °F English	Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Deflection Temperature at 0.46 MPa (66 psi)	160 °C @Thickness 3.20 mm	320 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	154 °C @Thickness 3.20 mm	309 °F @Thickness 0.126 in	unannealed; ASTM D648
	154 °C @Thickness 6.40 mm	309 °F @Thickness 0.252 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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