

SABIC Innovative Plastics NORYL EM6100 PPE+PS (Asia Pacific)

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

Material Notes:

Medium heat, high impact PPO/HIPS alloy used in the automotive industry.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EM6100-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570
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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	70 %	70 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	65.0 MPa	9430 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.53 J/cm	8.49 ft-lb/in	ASTM D256
	2.24 J/cm @Temperature -40.0 °C	4.20 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	211 µm/m-°C @Temperature -40.0 - 60.0 °C	117 µin/in-°F @Temperature -40.0 - 140 °F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	110 °C @Thickness 6.40 mm	230 °F @Thickness 0.252 in	unannealed; ASTM D648

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