

SABIC Innovative Plastics Noryl EM6100F PPE+PS

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

Material Notes:

Automotive interiors. 240F HDT. High impact/good property retention after heat ageing. In blowmolding, better sandability of flash, overblow. 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-EM6100F-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D 792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D 570
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	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	40 %	40 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	72.0 MPa	10400 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	1.96 GPa	284 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	0.960 J/cm @Temperature -40.0 Â°C	1.80 ft-lb/in @Temperature -40.0 Â°F	ASTM D 256
	4.00 J/cm @Temperature 23.0 Â°C	7.49 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Impact Test	36.0 J @Temperature 23.0 Â°C	26.6 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	117 Âµm/m-Â°C @Temperature 0.000 - 100 Â°C	65.0 Âµin/in-Â°F @Temperature 32.0 - 212 Â°F	ASTM E 831

Thermal Properties (50 psi)	Temperature at 0.46 MPa (6.7 psi)	121 Â°C Metric	250 Â°F English	Comments
		@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)		115 Â°C @Thickness 6.40 mm	239 Â°F @Thickness 0.252 in	unannealed; ASTM D 648

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