

SABIC Innovative Plastics NORYL EM7100 PPE+PS

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

Material Notes:

Automotive interiors. 200F DTUL. Excellent processability/economy. Good impact/mechanicals vs styrenics. Trim/instrument panel components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EM7100-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	48 %	48 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	62.0 MPa	8990 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	3.47 J/cm	6.50 ft-lb/in	ASTM D256
	1.60 J/cm	3.00 ft-lb/in	
Dart Drop, Total Energy	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	Instrumented Impact Energy @ peak; ASTM D3763
	30.0 J	22.1 ft-lb	
	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM E 831
	@Temperature 0.000 - 100 Â°C	@Temperature 32.0 - 212 Â°F	

Thermal Properties (66 psi)	101 Â°C Metric	214 Â°F English	Comments
Stress at 0.46 MPa (66 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Â°C @Thickness 6.40 mm	208 Â°F @Thickness 0.252 in	unannealed; ASTM D648

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