

## SABIC Innovative Plastics NORYL EM6100 PPE+PS

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

### Material Notes:

PPE+PS blend. Unfilled. Good balance of flow/heat/impact. Dimensional stability. Paint adhesion. Suitable for the automotive interior market: HVAC housings, radio components. MS-DB424, WSB-M4D844-A9, GMP.PPE.007.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-EM6100-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EM6100-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	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	
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	
Melt Index of Compound	15 g/10 min	15 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 Â°C	@Load 11.0 lb, Temperature 536 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ASTM D638
	40.0 MPa	5800 psi	ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	ISO 527
	43.0 MPa	6240 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	60 %	60 %	ISO 527
	65 %	65 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	2.8 %	2.8 %	ISO 527
	3.0 %	3.0 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	5 mm/min; ASTM D638
	2.05 GPa	297 ksi	1 mm/min; ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	66.8 MPa	9678 psi	2.6 mm/min, 100 mm span; ASTM D790
	67.0 MPa	9720 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	2.6 mm/min, 100 mm span; ASTM D790
	2.10 GPa	305 ksi	ISO 178
	2.10 GPa	305 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	4.53 J/cm	8.49 ft-lb/in	ASTM D256
	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	33.0 kJ/m <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	3.30 J/cm <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	ISO 179/2C
	1.90 J/cm <sup>2</sup>	9.04 ft-lb/in <sup>2</sup>	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	36.0 J	26.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	42.0 J	31.0 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	117 Åµm/m-Å°C	65.0 Åµin/in-Å°F	ASTM E 831
	@Temperature 0.000 - 100 Å°C	@Temperature 32.0 - 212 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	126 Å°C	259 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	124 Å°C	255 Å°F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 Â°C	223 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	115 Â°C	239 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	119 Â°C	246 Â°F	Rate B/50; ISO 306
	123 Â°C	253 Â°F	Rate B/120; ISO 306
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	

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