

SABIC Innovative Plastics NORYL EM7430 PPE+PS

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

Material Notes:

30% glass reinforced, high flow PPO. Automotive. Energy management material.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-EM7430-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm @Thickness 3.20 mm	0.0010 - 0.0020 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	19.6 g/10 min @Load 5.00 kg, Temperature 280 Â°C	19.6 g/10 min @Load 11.0 lb, Temperature 536 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.75 GPa	1120 ksi	5 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	2.6 mm/min, 100 mm span; ASTM D790
	162 MPa	23500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.17 GPa	1040 ksi	2.6 mm/min, 100 mm span; ASTM D790
	8.34 GPa	1210 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.61 J/cm	4.89 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	66.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	129 $\text{Å}^\circ\text{C}$	264 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	121 $\text{Å}^\circ\text{C}$	250 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	Rate B/50; ASTM D1525

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