

SABIC Innovative Plastics NORYL S100G10 PPE+PS (Asia Pacific)

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-S100G10-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm @Thickness 3.20 mm	0.0040 - 0.0050 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.0 MPa	9860 psi	SABIC - Japan Method
Elongation at Break	8.0 - 10 %	8.0 - 10 %	SABIC - Japan Method
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	4.11 GPa	596 ksi	ASTM D790
Izod Impact, Notched	0.880 J/cm	1.65 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 - 50.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	19.4 - 27.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	TMA
Deflection Temperature at 0.46 MPa (66 psi)	100 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	212 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94
	5VB @Thickness 2.30 mm	5VB @Thickness 0.0906 in	UL 94

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