

SABIC Innovative Plastics NORYL SE100V PPE+HIPS (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-SE100V-PPEHIPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
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
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	43.0 MPa	6240 psi	SABIC - Japan Method
Elongation at Break	55 %	55 %	SABIC - Japan Method
Flexural Strength	71.0 MPa	10300 psi	ASTM D790
Flexural Modulus	2.25 GPa	326 ksi	ASTM D790
Izod Impact, Notched	2.54 J/cm	4.76 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @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	HB @Thickness 0.710 mm	HB @Thickness 0.0280 in	UL 94
	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	UL 94
	5VB @Thickness 2.80 mm	5VB @Thickness 0.110 in	UL 94

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	2.65 @Frequency 50.0 - 60.0 Hz	2.65 @Frequency 50.0 - 60.0 Hz	ASTM D150
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495

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