

SABIC Innovative Plastics NORYL APS440 PPE+PPS (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Sulfide (PPS)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-APS440-PPEPPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Water Absorption	0.010 % @Time 86400 sec	0.010 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0070 cm/cm @Thickness 3.20 mm	0.0020 - 0.0070 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	127 MPa	18400 psi	SABIC - Japan Method
Elongation at Break	7.0 %	7.0 %	SABIC - Japan Method
Flexural Strength	166 MPa	24100 psi	ASTM D790
Flexural Modulus	10.78 GPa	1564 ksi	ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 - 58.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature -30.0 - 30.0 $^{\circ}\text{C}$	10.0 - 32.2 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature -22.0 - 86.0 $^{\circ}\text{F}$	TMA
Deflection Temperature at 0.46 MPa (66 psi)	257 $^{\circ}\text{C}$ @Thickness 3.20 mm	495 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.6 @Frequency 50.0 - 60.0 Hz	3.6 @Frequency 50.0 - 60.0 Hz	ASTM D150

Electrical Properties

Metric

English

Comments

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