

SABIC Innovative Plastics NORYL N300 PPE (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

High Heat 150deg.C, FR V-0

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-N300-PPE-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	66.0 MPa	9570 psi	SABIC - Japan Method
Elongation at Break	160 %	160 %	SABIC - Japan Method
Flexural Strength	92.0 MPa	13300 psi	ASTM D790
Flexural Modulus	2.25 GPa	326 ksi	ASTM D790
Izod Impact, Notched	3.72 J/cm	6.97 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature -30.0 - 30.0 $^{\circ}\text{C}$	38.9 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature -22.0 - 86.0 $^{\circ}\text{F}$	TMA
Deflection Temperature at 1.8 MPa (264 psi)	150 $^{\circ}\text{C}$ @Thickness 6.40 mm	302 $^{\circ}\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257

Electrical Properties	2.69 Metric	2.69 English	Comments
Dielectric Constant	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	ASTM D150
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495

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