

SABIC Innovative Plastics NORYL APS130 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-APS130-PPEPPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 - 0.0070 cm/cm @Thickness 3.20 mm	0.0025 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	29.1 g/10 min @Load 5.00 kg, Temperature 300 °C	29.1 g/10 min @Load 11.0 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	112 MPa	16200 psi	SABIC - Japan Method
Elongation at Break	8.0 %	8.0 %	SABIC - Japan Method
Flexural Strength	156 MPa	22600 psi	ASTM D790
Flexural Modulus	8.43 GPa	1220 ksi	ASTM D790
Izod Impact, Notched	0.880 J/cm	1.65 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 - 55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -30.0 - 30.0 °C	13.9 - 30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -22.0 - 86.0 °F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	267 °C @Thickness 3.20 mm	513 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.3 @Frequency 50.0 - 60.0	3.3 @Frequency 50.0 - 60.0	ASTM D150

Electrical Properties	Hz Metric	Hz English	Comments
Dielectric Strength	22.1 kV/mm @Thickness 1.60 mm	561 kV/in @Thickness 0.0630 in	in oil; ASTM D149

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