

SABIC Innovative Plastics NORYL 731S PPE+PS (Asia Pacific)

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

Material Notes:

High heat PPO/HIPS alloy suitable for use in some potable water applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-731S-PPEPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	30 %	30 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.42 GPa	351 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.08 J/cm	3.90 ft-lb/in	ASTM D256
	1.33 J/cm	2.49 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 60.0 Â°C	@Temperature -40.0 - 140 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	117 Â°C	243 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
UL RTI, Electrical	126 Â°C	259 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
	105 Â°C	221 Â°F	UL 746B

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical without Impact	105 °C	221 °F	UL 746B

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