

SABIC Innovative Plastics Noryl 731H PPE+PS

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

Material Notes:

High gloss, general purpose grade. 130C (266F) DTUL. UL 94 HB rated. For multiple plugs, wine filter plates, etc. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-731H-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D 792
Water Absorption	0.060 %	0.060 %	ASTM D 570
	@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
Hardness, Rockwell R	119	119	ASTM D 785
Tensile Strength, Yield	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.48 GPa	360 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D 256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Gardner Impact	2.67 J/cm	5.00 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Gardner Impact	5.00 J	3.69 ft-lb	ASTM D 3029
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Gardner Impact	25.0 J	18.4 ft-lb	ASTM D 3029
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties CTE, linear, Parallel to Flow	59.4 Åum/m-Å°C Metric	33.0 Åuin/in-Å°F English	Comments ASTM E 831
	@Temperature -40.0 - 95.0 Å°C	@Temperature -40.0 - 203 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	137 Å°C @Thickness 6.40 mm	279 Å°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	129 Å°C @Thickness 6.40 mm	264 Å°F @Thickness 0.252 in	unannealed; ASTM D 648
UL RTI, Electrical	105 Å°C	221 Å°F	UL 746B
UL RTI, Mechanical with Impact	90.0 Å°C	194 Å°F	UL 746B
UL RTI, Mechanical without Impact	105 Å°C	221 Å°F	UL 746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.65 @Frequency 50.0 - 60.0 Hz	2.65 @Frequency 50.0 - 60.0 Hz	ASTM D 150
Dielectric Strength	21.6 kV/mm @Thickness 3.20 mm	549 kV/in @Thickness 0.126 in	in oil; ASTM D 149
Dissipation Factor	0.00040 @Frequency 50.0 - 60.0 Hz	0.00040 @Frequency 50.0 - 60.0 Hz	ASTM D 150
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	Tungsten, PLC code 7; ASTM D 495
Comparative Tracking Index	175 - 250 V	175 - 250 V	PLC code 3; UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	PLC code 2; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	PLC code 4; UL 746A

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China