

SABIC Innovative Plastics PREVEX VGAX PPE+PS

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

Material Notes:

Improved productivity and reliability. Nonchlorinated, nonbrominated flame retardant. 180F HDT.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-PREVEX-VGAX-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	23 %	23 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.7 %	6.7 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	82.0 MPa	11900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
Dart Drop, Total Energy	35.0 J	25.8 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Â°C @Thickness 6.40 mm	196 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C @Thickness 6.40 mm	180 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	112 Â°C	234 Â°F	Rate B/50; ASTM D1525

Thermal Properties	Metric °C	English	Comments
UL RTI, Mechanical with Impact	80.0 Å°C	176 Å°F	UL 746B
UL RTI, Mechanical without Impact	95.0 Å°C	203 Å°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.60e+15 ohm-cm	7.60e+15 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D257
Dielectric Constant	2.63 @Frequency 1.00e+6 Hz	2.63 @Frequency 1.00e+6 Hz	ASTM D150
	2.85 @Frequency 50.0 - 60.0 Hz	2.85 @Frequency 50.0 - 60.0 Hz	ASTM D150
Dielectric Strength	17.5 kV/mm @Thickness 3.20 mm	445 kV/in @Thickness 0.126 in	in oil; ASTM D149
Dissipation Factor	0.0070 @Frequency 1.00e+6 Hz	0.0070 @Frequency 1.00e+6 Hz	ASTM D150
	0.012 @Frequency 50.0 - 60.0 Hz	0.012 @Frequency 50.0 - 60.0 Hz	ASTM D150
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

Descriptive Properties	Value	Comments
Radiant Panel Listing	YES	UL Tested
UV-light, water exposure/immersion	F1	UL 746C

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