

## SABIC Innovative Plastics Prevox BJAX PPE+PS

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

### Material Notes:

Foamable resin. All properties at 10% density reduction; 0.250" thick specimens; improved productivity. 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-Prevox-BJAX-PPEPS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Prevox-BJAX-PPEPS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	foam molded; ASTM D 792
	1.12 g/cc	1.12 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	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	SABIC Method
	@Thickness 6.40 mm	@Thickness 0.252 in	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	SABIC Method
	@Thickness 6.40 mm	@Thickness 0.252 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM D 638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Tensile Strength, Yield	35.0 MPa	5080 psi	ASTM D 638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Break	14.6 %	14.6 %	ASTM D 638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Elongation at Yield	6.7 %	6.7 %	ASTM D 638
	@Thickness 6.35 mm	@Thickness 0.250 in	
Flexural Yield Strength	64.0 MPa	9280 psi	ASTM D 790
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flexural Modulus	2.13 GPa	309 ksi	ASTM D 790
	@Thickness 6.40 mm	@Thickness 0.252 in	
Izod Impact, Unnotched	3.09 J/cm	5.79 ft-lb/in	ASTM D 4812

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
Impact Test	46.0 J  @Temperature 23.0 °C	33.9 ft-lb  @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C  @Thickness 6.40 mm	199 °F  @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C  @Thickness 6.40 mm	172 °F  @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	111 °C	232 °F	Rate B/50; ASTM D 1525
UL RTI, Electrical	95.0 °C	203 °F	UL 746B
UL RTI, Mechanical with Impact	95.0 °C	203 °F	UL 746B
UL RTI, Mechanical without Impact	95.0 °C	203 °F	UL 746B
Flammability, UL94	V-0  @Thickness 2.99 mm	V-0  @Thickness 0.118 in	UL 94
	5VA  @Thickness 4.49 mm	5VA  @Thickness 0.177 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten, PLC code 6; ASTM D 495
Comparative Tracking Index	250 - 400 V	250 - 400 V	PLC code 2; UL 746A
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	PLC code 1; UL 746A
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	surface, PLC code 3; UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	PLC code 3; UL 746A

Descriptive Properties	Value	Comments
FOAM - ELECTRICAL 6.4 mm Wt Reduction, %	10	-
FOAM - IMPACT 6.4 mm Wt Reduction, %	10	-
FOAM - MECHANICAL 6.4 mm Wt Reduction, %	10	-
FOAM - PHYSICAL 6.4mm Wt Reduction, %	10	-

Descriptive Properties	Value	Comments
mm Wt Reduction, % UV-light, water exposure/immersion	F2	UL 746C

## Contact Songhan Plastic Technology Co.,Ltd.

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