

## SABIC Innovative Plastics Valox<sup>®</sup> 771 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

35% mineral/glass reinforced flame retardant grade with a CTI performance level class of 0 rating. Applications which may see electrical arcing.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Valox-771-PBT.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-771-PBT.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.72 g/cc	1.72 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0065 - 0.0085 cm/cm	0.0065 - 0.0085 in/in	on Tensile Bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	110 MPa	16000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.73 J/cm	6.99 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	217 Â°C @Thickness 6.40 mm	423 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	196 Â°C @Thickness 6.40 mm	385 Â°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	140 Â°C	284 Â°F	UL 746B
UL RTI, Mechanical with Impact	125 Â°C	257 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	V-2 @Thickness 0.610 mm	V-2 @Thickness 0.0240 in	UL 94

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 0.760 mm	@Thickness 0.0299 in	
	5VA	5VA	UL 94
	@Thickness 2.01 mm	@Thickness 0.0791 in	
Glow Wire Test	750 Â°C	1380 Â°F	IEC 60695-2-13
	800 Â°C	1470 Â°F	IEC 60695-2-13
	960 Â°C	1760 Â°F	IEC 60695-2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	960 Â°C	1760 Â°F	IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	180 - 240 sec	180 - 240 sec	Tungsten; ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	UL 746A

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

## Contact Songhan Plastic Technology Co.,Ltd.

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