

SABIC Innovative Plastics Valox® 4521 PBT

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

Material Notes:

VALOX 4521 is a high flow, 20% glass reinforced flame retardant PBT injection moulding resin. Applications: electrical applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-4521-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0070 cm/cm @Thickness 3.20 mm	0.0030 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm @Thickness 3.20 mm	0.0060 - 0.0090 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	89.0 MPa	12900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.51 GPa	509 ksi	5 mm/min; ASTM D638
Flexural Strength	137 MPa	19900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.96 GPa	719 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	4.80 J/cm	8.99 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C @Thickness 3.20 mm	424 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648
UL RTI, Electrical	130 Â°C	266 Â°F	UL 746B

UL RTI Mechanical with Impact Thermal Properties	130 Å°C Metric	266 Å°F English	UL 746B Comments
UL RTI, Mechanical without Impact	130 Å°C	266 Å°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.760 mm	V-0 @Thickness 0.0299 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 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	>= 150 mm/min	>= 5.91 in/min	UL 746A

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