

SABIC Innovative Plastics Valox® 430 PBT (Asia Pacific)

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

Material Notes:

33 % glass reinforced, impact modified. Connectors, etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-430-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 1.50 - 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
	0.0050 cm/cm @Thickness 3.20 mm	0.0050 in/in @Thickness 0.126 in	SABIC Method
	0.0050 - 0.0080 cm/cm @Thickness 3.20 - 4.60 mm	0.0050 - 0.0080 in/in @Thickness 0.126 - 0.181 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 1.50 - 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
	0.0060 - 0.0090 cm/cm @Thickness 3.20 - 4.60 mm	0.0060 - 0.0090 in/in @Thickness 0.126 - 0.181 in	SABIC Method
Melt Flow	11.7 g/10 min @Load 2.16 kg, Temperature 250 Â°C	11.7 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength at Break	106 MPa	15400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.66 GPa	1260 ksi	5 mm/min; ASTM D638
			1.3 mm/min, 50 mm span; ASTM

Flexural Strength Mechanical Properties	174 MPa Metric	25200 psi English	D790 Comments
Flexural Modulus	7.81 GPa	1130 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.57 J/cm	16.1 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 Â°C @Thickness 6.40 mm	433 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C @Thickness 6.40 mm	406 Â°F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical with Impact	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 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
Specific Volume	0.65cm ³ /g	ASTM D792

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