

SABIC Innovative Plastics Valox® 364 PBT

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

Material Notes:

Designed for outdoor telecommunications enclosure applications. 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-Valox-364-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	70 %	70 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	66.0 MPa	9570 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.86 GPa	270 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	4.27 J/cm @Temperature -40.0 °C	8.00 ft-lb/in @Temperature -40.0 °F	ASTM D 256
	6.94 J/cm @Temperature -20.0 °C	13.0 ft-lb/in @Temperature -4.00 °F	ASTM D 256
	7.47 J/cm @Temperature 23.0 °C	14.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Impact Test	44.0 J @Temperature -20.0 °C	32.5 ft-lb @Temperature -4.00 °F	Instrumented Impact Total Energy; ASTM D 3763

Mechanical Properties	Metric	English	Comments
	45.0 J @Temperature 23.0 Â°C	33.2 ft-lb @Temperature 73.4 Â°F	Charpy Impact Total Energy; ASTM D 3763
	47.0 J @Temperature -40.0 Â°C	34.7 ft-lb @Temperature -40.0 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C @Thickness 3.20 mm	217 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Â°C @Thickness 3.20 mm	154 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
UL RTI, Electrical	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical with Impact	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical without Impact	75.0 Â°C	167 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	UL 94
	5VA @Thickness 2.99 mm	5VA @Thickness 0.118 in	UL 94
Oxygen Index	28 %	28 %	LOI; ASTM D 2863

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten, PLC code 5; ASTM D 495
Comparative Tracking Index	>= 600 V	>= 600 V	PLC code 0; UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	PLC code 2; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	PLC code 2; UL 746A

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

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