

SABIC Innovative Plastics Valox® 364 PBT+PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Designed for outdoor telecommunications enclosure applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-364-PBTPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	70 %	70 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	66.0 MPa	9570 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	ASTM D256
	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	
Dart Drop, Total Energy	6.94 J/cm	13.0 ft-lb/in	ASTM D256
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
	44.0 J	32.5 ft-lb	ASTM D3763
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
	45.0 J	33.2 ft-lb	ASTM D3763

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
	47.0 J	34.7 ft-lb	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	98.0 Âµm/m-Â°C	54.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Â°C	154 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	115 Â°C	239 Â°F	Rate B/50; ASTM D1525
	122 Â°C	252 Â°F	Rate B/120; ISO 306
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	V-0	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	
	5VA	5VA	UL 94
	@Thickness 2.99 mm	@Thickness 0.118 in	
Oxygen Index	28 %	28 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL 746A

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

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