

## SABIC Innovative Plastics Valox® 364 PBT (Asia Pacific)

Category : Polymer , Thermoplastic , 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-PBT-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-364-PBT-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0300 %	0.0300 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.090 %	0.090 %	ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.20 mm	0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	19 g/10 min @Load 5.00 kg, Temperature 266 <sup>o</sup> C	19 g/10 min @Load 11.0 lb, Temperature 511 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	17 g/10 min @Load 5.00 kg, Temperature 265 <sup>o</sup> C	17 g/10 min @Load 11.0 lb, Temperature 509 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.0 MPa	5220 psi	Type I, 50 mm/min; ASTM D638
	36.0 MPa	5220 psi	50 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
	46.0 MPa	6670 psi	50 mm/min; ISO 527
Elongation at Break	36 %	36 %	50 mm/min; ISO 527
	39 %	39 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	1.95 GPa	283 ksi	1 mm/min; ISO 527
	1.96 GPa	284 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric <sup>Pa</sup>	English <sup>l</sup>	Comments <sup>1.3 mm/min, 50 mm span; ASTM D790</sup>
	69.0 MPa	10000 psi	2 mm/min; ISO 178
Flexural Modulus	1.77 GPa	257 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.83 GPa	265 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.17 J/cm	13.4 ft-lb/in	ASTM D256
	4.27 J/cm	8.00 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ASTM D256
	6.94 J/cm	13.0 ft-lb/in	ASTM D256
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	ASTM D256
Izod Impact, Notched (ISO)	51.0 kJ/mÂ²	24.3 ft-lb/inÂ²	80*10*4; ISO 180/1A
	17.0 kJ/mÂ²	8.09 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	5.10 J/cmÂ²	24.3 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	45.0 J	33.2 ft-lb	ASTM D3763
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	ASTM D3763
	47.0 J	34.7 ft-lb	ASTM D3763
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	ASTM D3763
	47.0 J	34.7 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 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	ASTM E 831
	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	ISO 11359-2
CTE, linear, Transverse to Flow	98.0 Âµm/m-Â°C	54.4 Âµin/in-Â°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
	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)	74.0 Â°C	165 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	65.0 Â°C	149 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
	119 Â°C	246 Â°F	Rate B/50; ISO 306
	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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