

SABIC Innovative Plastics Valox® V3903WX PBT+PC (Asia Pacific)

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

Material Notes:

Unreinforced flame retardant PBT/PC blends with good chemical resistance and low temperature impact, UV stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V3903WX-PBTPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Water Absorption at Saturation	0.010 %	0.010 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
Linear Mold Shrinkage, Transverse	0.0086 cm/cm	0.0086 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 265 Â°C	@Load 4.76 lb, Temperature 509 Â°F	
	7.0 g/10 min	7.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	
	13 g/10 min	13 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 265 Â°C	@Load 11.0 lb, Temperature 509 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D638
	44.0 MPa	6380 psi	5 mm/min; ISO 527
Tensile Strength, Yield	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
	51.0 MPa	7400 psi	50 mm/min; ISO 527
Elongation at Break	80 %	80 %	Type I, 50 mm/min; ASTM D638
	89 %	89 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments ; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	50 mm/min; ASTM D638
	2.05 GPa	297 ksi	1 mm/min; ISO 527
Flexural Strength	74.0 MPa	10700 psi	1.3 mm/min, 50 mm span; ASTM D790
	86.0 MPa	12500 psi	2 mm/min; ISO 178
Flexural Modulus	1.91 GPa	277 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.20 GPa	464 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.90 J/cm	14.8 ft-lb/in	ASTM D256
	2.20 J/cm	4.12 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.60 J/cm	4.87 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	4.90 J/cm	9.18 ft-lb/in	ASTM D256
	@Temperature -10.0 °C	@Temperature 14.0 °F	
Izod Impact, Notched (ISO)	6.00 J/cm	11.2 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	64.0 kJ/m ²	30.5 ft-lb/in ²	80*10*3; ISO 180/1A
	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*3; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	58.0 kJ/m ²	27.6 ft-lb/in ²	80*10*3; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	80*10*3; ISO 180/1A
	5.40 J/cm ²	25.7 ft-lb/in ²	
	1.80 J/cm ²	8.57 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 Åµm/m-Å°C	47.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	85.0 Åµm/m-Å°C	47.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	96.0 Åµm/m-Å°C	53.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	98.0 Åµm/m-Å°C	54.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	113 Å°C	235 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	120 Å°C	248 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Å°C	178 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	83.0 Å°C	181 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	96.0 Å°C	205 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	117 Å°C	243 Å°F	Rate B/50; ISO 306
	120 Å°C	248 Å°F	Rate B/120; ISO 306
	120 Å°C	248 Å°F	Rate B/50; ASTM D1525
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	200 V	200 V	IEC 60112
	175 - 250 V	175 - 250 V	UL 746A

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