

SABIC Innovative Plastics Valox® V9500GW PET+PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Unfilled Flameretardant PET/PC blend for GWIT. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V9500GW-PETPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.70 % @Temperature 23.0 ^o C	0.70 % @Temperature 73.4 ^o F	ISO 62
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 265 ^o C	30 g/10 min @Load 4.76 lb, Temperature 509 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	50 mm/min; ISO 527
Tensile Strength, Yield	52.0 MPa	7540 psi	50 mm/min; ISO 527
Elongation at Break	40 %	40 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527
Flexural Yield Strength	95.0 MPa	13800 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 ^o C	3.33 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
	8.00 kJ/m ² @Temperature 23.0 ^o C	3.81 ft-lb/in ² @Temperature 73.4 ^o F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.800 J/cm ² @Temperature 23.0	3.81 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
CTE, linear, Parallel to Flow	80.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	44.4 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	44.4 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	ISO 11359-2
	80.0 Åµm/m-Å°C @Temperature 23.0 - 80.0 Å°C	44.4 Åµin/in-Å°F @Temperature 73.4 - 176 Å°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	130 Å°C	266 Å°F	Rate B/50; ISO 306
	140 Å°C	284 Å°F	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 0.000 mm	HB @Thickness 0.000 in	UL 94
	HB @Thickness 0.000 mm	HB @Thickness 0.000 in	UL 94 by SABIC-IP
	V-2 @Thickness 0.000 mm	V-2 @Thickness 0.000 in	UL 94 by SABIC-IP
	V-2 @Thickness 0.000 mm	V-2 @Thickness 0.000 in	UL 94
	V-1 @Thickness 0.000 mm	V-1 @Thickness 0.000 in	UL 94
	V-1 @Thickness 0.000 mm	V-1 @Thickness 0.000 in	UL 94 by SABIC-IP
	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	UL 94 by SABIC-IP
	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	UL 94
Glow Wire Test	775 Å°C	1430 Å°F	Glow Wire Ignitability Temperature; IEC 60695-2-13

Thermal Properties	@Thickness 1.00 mm Metric	@Thickness 0.0394 in English	Comments
	775 Â°C	1430 Â°F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	775 Â°C	1430 Â°F	Glow Wire Ignitability Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

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