

SABIC Innovative Plastics Valox® VX8532 PBT+PET (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

VALOX VX8532 is a 30% glassfiber reinforced, non blooming, flame retardant PBT+PET blend with excellent surface appearance and good ultrasonic weldability properties. 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-VX8532-PBTPET-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.030 %	0.030 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.33 % @Temperature 23.0 ^o C	0.33 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	on tensile bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	on tensile bar; SABIC Method
Melt Flow	7.0 g/10 min @Load 1.20 kg, Temperature 265 ^o C	7.0 g/10 min @Load 2.65 lb, Temperature 509 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	10.0 GPa	1450 ksi	1 mm/min; ISO 527
Flexural Strength	195 MPa	28300 psi	2 mm/min; ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	35.0 kJ/m ² @Temperature -30.0 ^o C	16.7 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1U
	40.0 kJ/m ² @Temperature 23.0 ^o C	19.0 ft-lb/in ² @Temperature 73.4 ^o F	80*10*4; ISO 180/1U

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	4.00 J/cmÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Taber Abrasion, mg/1000 Cycles	45 @Load 1.00 kg	45 @Load 2.20 lb	CS-17; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	11.1 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Thermal Conductivity	0.320 W/m-K	2.22 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C	374 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	200 Â°C	392 Â°F	Rate B/50; ISO 306
	200 Â°C	392 Â°F	Rate B/120; ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	UL 94 by SABIC-IP
Oxygen Index	31 %	31 %	LOI; ISO 4589
Glow Wire Test	960 Â°C @Thickness 1.00 mm	1760 Â°F @Thickness 0.0394 in	Glow Wire Flammability Index; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	3.3 @Frequency 1.00e+6	3.3 @Frequency 1.00e+6	IEC 60250

Electrical Properties	Hz Metric	Hz English	Comments
	3.4	3.4	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	17.0 kV/mm	432 kV/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0015	0.0015	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
	0.0131	0.0131	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	200 V	200 V	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Å°C +/- 2Å°C	PASSES	IEC 60695-10-2

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