

SABIC Innovative Plastics Valox® ENH8560 PBT+PET (Europe-Africa-Middle East)

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

Material Notes:

Non-Brominated & Non-Chlorinated Flame Retardant, 30% Glass fiber reinforced PBT/PET blend

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-ENH8560-PBTPET-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Filler Content	30 %	30 %	ASTM D229
Moisture Absorption	0.0500 %	0.0500 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.30 %	0.30 %	ISO 62
Viscosity	155000 cP	155000 cP	Melt Viscosity, 260Â°C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	on Tensile Bar; SABIC Method
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 Â°C	@Load 4.76 lb, Temperature 509 Â°F	
	11 g/10 min	11 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	
	11 g/10 min	11 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	
Melt Index of Compound	10 g/10 min	10 g/10 min	MVR [cm ³ /10 min]; ASTM D1238
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	
	25 g/10 min	25 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
Hardness, Rockwell R	118	118	ISO 2039-2

Mechanical Properties	Metric ^{Pa}	English ^{psi}	Comments
Tensile Strength at Break	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
	105 MPa	15200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
	105 MPa	15200 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
	1.0 %	1.0 %	5 mm/min; ISO 527
Tensile Modulus	12.0 GPa	1740 ksi	5 mm/min; ASTM D638
	12.0 GPa	1740 ksi	1 mm/min; ISO 527
Flexural Strength	145 MPa	21000 psi	1.3 mm/min, 50 mm span; ASTM D790
	165 MPa	23900 psi	2 mm/min; ISO 178
Flexural Yield Strength	145 MPa	21000 psi	1.3 mm/min, 50 mm span; ASTM D790
	165 MPa	23900 psi	2 mm/min; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.0 GPa	1450 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ASTM D4812
	4.00 J/cm	7.49 ft-lb/in	ASTM D4812
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Mechanical Properties (ISO)	Metric J/m^2	English ft-lb/in^2	Comments (ISO 180/1A)
	7.00 kJ/m^2 @Temperature 0.000 $^{\circ}\text{C}$	3.33 ft-lb/in^2 @Temperature 32.0 $^{\circ}\text{F}$	80*10*4; ISO 180/1A
	7.00 kJ/m^2 @Temperature -30.0 $^{\circ}\text{C}$	3.33 ft-lb/in^2 @Temperature -22.0 $^{\circ}\text{F}$	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m^2	14.3 ft-lb/in^2	80*10*4; ISO 180/1U
	27.0 kJ/m^2 @Temperature -30.0 $^{\circ}\text{C}$	12.8 ft-lb/in^2 @Temperature -22.0 $^{\circ}\text{F}$	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.00 J/cm^2	14.3 ft-lb/in^2	ISO 179/2C
	3.00 J/cm^2 @Temperature -30.0 $^{\circ}\text{C}$	14.3 ft-lb/in^2 @Temperature -22.0 $^{\circ}\text{F}$	ISO 179/2C
Charpy Impact, Notched	0.500 J/cm^2	2.38 ft-lb/in^2	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.700 J/cm^2	3.33 ft-lb/in^2	ISO 179/2C
	0.700 J/cm^2 @Temperature -30.0 $^{\circ}\text{C}$	3.33 ft-lb/in^2 @Temperature -22.0 $^{\circ}\text{F}$	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature -40.0 - 40.0 $^{\circ}\text{C}$	10.6 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature -40.0 - 104 $^{\circ}\text{F}$	ISO 11359-2
	21.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 23.0 - 150 $^{\circ}\text{C}$	11.7 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 73.4 - 302 $^{\circ}\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	56.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature -40.0 - 40.0 $^{\circ}\text{C}$	31.1 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature -40.0 - 104 $^{\circ}\text{F}$	ISO 11359-2
	140 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 23.0 - 150 $^{\circ}\text{C}$	77.8 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 73.4 - 302 $^{\circ}\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	215 $^{\circ}\text{C}$	419 $^{\circ}\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
	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	3.6	3.6	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	8.00 kV/mm	203 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
	8.00 kV/mm	203 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
	25.0 kV/mm	635 kV/in	in oil; IEC 60243-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	25.0 kV/mm	635 kV/in	in oil; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	35.0 kV/mm	889 kV/in	in oil; ASTM D149
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	35.0 kV/mm	889 kV/in	in oil; IEC 60243-1
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Dissipation Factor	0.012	0.012	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.012	0.012	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	250 - 400 V	250 - 400 V	UL 746A
	425 V	425 V	IEC 60112

Electrical Properties	Metric	English	Comments
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China