

SABIC Innovative Plastics Valox® 8032UX 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 8032UX is a 30% glass fibre reinforced, UV stabilized PBT+PET blend with excellent surface finish. This grade is VALOX 8032U with improved weathering resistance. Applications: appliance housings, door handles, mirror brackets.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-8032UX-PBTPET-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Filler Content	30 %	30 %	ASTM D229
Moisture Absorption	0.0700 %	0.0700 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.16 %	0.16 %	ISO 62
Viscosity	195000 cP	195000 cP	Melt Viscosity, 260Â°C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	on Tensile Bar; SABIC Method
	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	on Tensile Bar; SABIC Method
	0.0060 - 0.010 cm/cm @Thickness 3.20 mm	0.0060 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	21 g/10 min	21 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 Â°C	@Load 4.76 lb, Temperature 509 Â°F	
	45 g/10 min	45 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 265 Â°C	@Load 11.0 lb, Temperature 509 Â°F	
	45 g/10 min	45 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 266 Â°C	@Load 11.0 lb, Temperature 511 Â°F	
Melt Index of Compound	15 g/10 min	15 g/10 min	MVR [cm ³ /10 min]; ISO 1133

Physical Properties	Metric @Load 2.16 kg, Temperature 265 Â°C	English @Load 4.76 lb, Temperature 509 Â°F	Comments
	20 g/10 min	20 g/10 min	
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	MVR [cm^3/10 min]; ISO 1133
	35 g/10 min	35 g/10 min	
	@Load 5.00 kg, Temperature 265 Â°C	@Load 11.0 lb, Temperature 509 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039-2
Hardness, H358/30	234 MPa	33900 psi	ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	140 MPa	20300 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	10.5 GPa	1520 ksi	5 mm/min; ASTM D638
	10.5 GPa	1520 ksi	1 mm/min; ISO 527
Flexural Strength	205 MPa	29700 psi	2 mm/min; ISO 178
Flexural Yield Strength	165 MPa	23900 psi	1.3 mm/min, 50 mm span; ASTM D790
	210 MPa	30500 psi	2 mm/min; ISO 178
Flexural Modulus	8.45 GPa	1230 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.00 GPa	1310 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	0.830 J/cm	1.55 ft-lb/in	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ASTM D256 Comments
	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Unnotched	8.20 J/cm	15.4 ft-lb/in	ASTM D4812
	7.45 J/cm	14.0 ft-lb/in	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Unnotched (ISO)	50.0 kJ/mÂ²	23.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
	50.0 kJ/mÂ²	23.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	5.80 J/cmÂ²	27.6 ft-lb/inÂ²	ISO 179/2C
	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179/2C
	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	

Mechanical Properties	Metric @Temperature -30.0 Â°C	English @Temperature -22.0 Â°F	ISO 179/20 Comments
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Taber Abrasion, mg/1000 Cycles	30	30	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	12.2 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	25.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	13.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831

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	3.2 @Frequency 1.00e+6 Hz	3.2 @Frequency 1.00e+6 Hz	IEC 60250
	3.3 @Frequency 50.0 - 60.0 Hz	3.3 @Frequency 50.0 - 60.0 Hz	IEC 60250
	3.6 @Frequency 100 Hz	3.6 @Frequency 100 Hz	IEC 60250
Dielectric Strength	15.0 kV/mm @Thickness 3.20 mm	381 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
	23.0 kV/mm @Thickness 1.60 mm	584 kV/in @Thickness 0.0630 in	in oil; IEC 60243-1
	27.0 kV/mm @Thickness 0.800 mm	686 kV/in @Thickness 0.0315 in	in oil; IEC 60243-1
Dissipation Factor	0.00080 @Frequency 50.0 - 60.0 Hz	0.00080 @Frequency 50.0 - 60.0 Hz	IEC 60250

Electrical Properties	0.013 Metric	0.013 English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	300 V	300 V	IEC 60112
	250 - 400 V	250 - 400 V	UL 746A

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