

SABIC Innovative Plastics Valox[®] 865 PBT (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

VALOX 865 is a 30% glass fibre reinforced, non blooming flame retardant PBT+PET blend with an excellent surface appearance.

Applications: External housings, steam irons, appliance housings and lighting parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-865-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D792
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Filler Content	30 %	30 %	ASTM D229
Moisture Absorption	0.0300 %	0.0300 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.32 %	0.32 %	ISO 62
Viscosity	145000 cP	145000 cP	Melt Viscosity, 260 [°] 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
Linear Mold Shrinkage, Transverse	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	on Tensile Bar; SABIC Method
Melt Flow	70 g/10 min @Load 5.00 kg, Temperature 266 [°] C	70 g/10 min @Load 11.0 lb, Temperature 511 [°] F	ASTM D1238
Melt Index of Compound	7.0 g/10 min @Load 1.20 kg, Temperature 265 [°] C	7.0 g/10 min @Load 2.65 lb, Temperature 509 [°] F	MVR [cm ³ /10 min]; ISO 1133
	15 g/10 min @Load 2.16 kg, Temperature 265 [°] C	15 g/10 min @Load 4.76 lb, Temperature 509 [°] F	MVR [cm ³ /10 min]; ISO 1133
	23 g/10 min @Load 5.00 kg, Temperature 250 [°] C	23 g/10 min @Load 11.0 lb, Temperature 482 [°] F	MVR [cm ³ /10 min]; ISO 1133
	50 g/10 min @Load 5.00 kg, Temperature 265 [°] C	50 g/10 min @Load 11.0 lb, Temperature 509 [°] F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
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Hardness, Rockwell R Mechanical Properties	120 Metric	120 English	ISO 2039-2 Comments
Hardness, H358/30	115 MPa	16700 psi	ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	5 mm/min; ISO 527
	135 MPa	19600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	130 MPa	18900 psi	5 mm/min; ISO 527
	135 MPa	19600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	5 mm/min; ASTM D638
	11.0 GPa	1600 ksi	1 mm/min; ISO 527
Flexural Strength	185 MPa	26800 psi	1.3 mm/min, 50 mm span; ASTM D790
	195 MPa	28300 psi	2 mm/min; ISO 178
Flexural Yield Strength	185 MPa	26800 psi	1.3 mm/min, 50 mm span; ASTM D790
	195 MPa	28300 psi	2 mm/min; ISO 178
Flexural Modulus	9.00 GPa	1310 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.20 GPa	1330 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256
	0.750 J/cm	1.41 ft-lb/in	ASTM D256
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	0.750 J/cm	1.41 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Unnotched	7.30 J/cm	13.7 ft-lb/in	ASTM D4812
	7.20 J/cm	13.5 ft-lb/in	ASTM D4812

Mechanical Properties	@Temperature -30.0 Metric °C	@Temperature -22.0 English °F	Comments
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1U
	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/2C
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/2C
	0.800 J/cm ²	3.81 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	

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
	3.3	3.3	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	in oil; ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
	15.0 kV/mm	381 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
	19.0 kV/mm	483 kV/in	in oil; ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	19.0 kV/mm	483 kV/in	in oil; IEC 60243-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	25.0 kV/mm	635 kV/in	in oil; IEC 60243-1
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	25.0 kV/mm	635 kV/in	in oil; ASTM D149
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.012	0.012	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Comparative Tracking Index	>= 150 V	>= 150 V	IEC 60112
	175 - 250 V	175 - 250 V	UL 746A
	225 V	225 V	IEC 60112
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	UL 746A
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	UL 746A

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