

SABIC Innovative Plastics Valox® VX4930 PBT (Europe-Africa-Middle East)

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

Material Notes:

VALOX VX4930 is a 30% glass reinforced nucleated PBT/ASA blend with excellent mechanical properties, high dimensional stability and low density. Applications: connectors and automotive industry.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-VX4930-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Filler Content	30 %	30 %	ASTM D229
Moisture Absorption	0.230 %	0.230 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.71 %	0.71 %	ISO 62
Viscosity	130000 cP	130000 cP	Melt Viscosity, 260°C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	on Tensile Bar; SABIC Method
	0.0030 - 0.0070 cm/cm @Thickness 3.20 mm	0.0030 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Flow	13 g/10 min @Load 3.80 kg, Temperature 200 °C	13 g/10 min @Load 8.38 lb, Temperature 392 °F	ASTM D1238
	35 g/10 min @Load 5.00 kg, Temperature 265 °C	35 g/10 min @Load 11.0 lb, Temperature 509 °F	ASTM D1238
	35 g/10 min @Load 5.00 kg, Temperature 266 °C	35 g/10 min @Load 11.0 lb, Temperature 511 °F	ASTM D1238
Melt Index of Compound	13 g/10 min @Load 5.00 kg, Temperature 250 °C	13 g/10 min @Load 11.0 lb, Temperature 482 °F	MVR [cm ³ /10 min]; ISO 1133
	25 g/10 min @Load 5.00 kg, Temperature 265 °C	25 g/10 min @Load 11.0 lb, Temperature 509 °F	MVR [cm ³ /10 min]; ISO 1133

Physical Properties	Metric	English	Comments
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ISO 2039-2
Hardness, H358/30	210 MPa	30500 psi	ISO 2039-1
Tensile Strength at Break	125 MPa	18100 psi	Type I, 5 mm/min; ASTM D638
	130 MPa	18900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	125 MPa	18100 psi	Type I, 5 mm/min; ASTM D638
	130 MPa	18900 psi	5 mm/min; ISO 527
Elongation at Break	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	9.50 GPa	1380 ksi	5 mm/min; ASTM D638
	9.60 GPa	1390 ksi	1 mm/min; ISO 527
Flexural Strength	180 MPa	26100 psi	2 mm/min; ISO 178
Flexural Yield Strength	175 MPa	25400 psi	1.3 mm/min, 50 mm span; ASTM D790
	185 MPa	26800 psi	2 mm/min; ISO 178
Flexural Modulus	7.70 GPa	1120 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.20 GPa	1190 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched	8.00 J/cm	15.0 ft-lb/in	ASTM D4812
	8.00 J/cm	15.0 ft-lb/in	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties (ISO)	Metric	English	Comments
	8.00 kJ/m ² @Temperature 0.000 °C	3.81 ft-lb/in ² @Temperature 32.0 °F	80*10*4; ISO 180/1A
	8.00 kJ/m ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
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 @Temperature -30.0 °C	21.4 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.00 J/cm ²	14.3 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
	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	4.50 J/cm ² @Temperature -30.0 °C	21.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/2C
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/2C
	0.600 J/cm ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.900 J/cm ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 179/2C
Dart Drop, Total Energy	78.0 J @Temperature 23.0 °C	57.5 ft-lb @Temperature 73.4 °F	ASTM D3763
Taber Abrasion, mg/1000 Cycles	65	65	CS-17, 1 kg; SABIC Method

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

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ASTM E 631
	115 µm/m-°C	63.9 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft ² -°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae

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	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	21.0 kV/mm	533 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0024	0.0024	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.0182	0.0182	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
	500 V	500 V	IEC 60112

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