

SABIC Innovative Plastics Valox® VX4910 ASA+PBT (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ASA Polymer , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + ASA Blend, Glass Fiber Reinforced

Material Notes:

10% Glass reinforced nucleated PBT/ASA with excellent mechanical properties high dimensional stability, and low density.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-VX4910-ASAPBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Filler Content	10 %	10 %	ASTM D229
Viscosity	160000 cP	160000 cP	Melt Viscosity, 260 ^o C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	20 g/10 min @Load 3.80 kg, Temperature 200 ^o C	20 g/10 min @Load 8.38 lb, Temperature 392 ^o F	ASTM D1238
	40 g/10 min @Load 5.00 kg, Temperature 265 ^o C	40 g/10 min @Load 11.0 lb, Temperature 509 ^o F	ASTM D1238
Melt Index of Compound	25 g/10 min @Load 5.00 kg, Temperature 250 ^o C	25 g/10 min @Load 11.0 lb, Temperature 482 ^o F	MVR [cm ³ /10 min]; ISO 1133
	35 g/10 min @Load 5.00 kg, Temperature 265 ^o C	35 g/10 min @Load 11.0 lb, Temperature 509 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039-2
Hardness, H358/30	100 MPa	14500 psi	ISO 2039-1
Tensile Strength at Break	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638
	80.0 MPa	11600 psi	5 mm/min; ISO 527
Tensile Strength, Yield	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric 30.0 MPa	English 11000 psi	Comments 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
	4.0 %	4.0 %	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	4.60 GPa	667 ksi	5 mm/min; ASTM D638
	4.60 GPa	667 ksi	1 mm/min; ISO 527
Flexural Strength	115 MPa	16700 psi	1.3 mm/min, 50 mm span; ASTM D790
	115 MPa	16700 psi	2 mm/min; ISO 178
Flexural Yield Strength	115 MPa	16700 psi	1.3 mm/min, 50 mm span; ASTM D790
	120 MPa	17400 psi	2 mm/min; ISO 178
Flexural Modulus	3.40 GPa	493 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.80 GPa	551 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	0.450 J/cm	0.843 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.500 J/cm	0.937 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Unnotched	4.40 J/cm	8.24 ft-lb/in	ASTM D4812
	3.40 J/cm	6.37 ft-lb/in	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	5.00 kJ/m ²	2.38 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/2C
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/2C
	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	45.0 J	33.2 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.7 Åµm/m-Å°C	19.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
	41.1 Åµm/m-Å°C	22.8 Åµin/in-Å°F	
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	50.0 Åµm/m-Å°C	27.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
	81.2 Åµm/m-Å°C	45.1 Åµin/in-Å°F	
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ISO 11359-2
CTE, linear, Parallel to Flow	120 Åµm/m-Å°C	66.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
	196 Åµm/m-Å°C	109 Åµin/in-Å°F	
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	205 Å°C	401 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	130 Å°C	266 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	150 Å°C	302 Å°F	Rate B/50; ASTM D1525
	150 Å°C	302 Å°F	Rate B/50; ISO 306
	155 Å°C	311 Å°F	Rate B/120; ISO 306
	218 Å°C	424 Å°F	Rate A/50; ISO 306
	218 Å°C	424 Å°F	Rate A/50; ASTM D1525

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.4	3.4	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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

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