

SABIC Innovative Plastics Valox® EXVX0095 PBT (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

VALOX EXVX0095 will be GLOBAL 420SE0 per January 2009. 30% GF PBT Flame Retardant. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-EXVX0095-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 g/cc	ASTM D 792
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 % @Temperature 23.0 ^o C	0.25 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0050 cm/cm	0.0010 - 0.0050 in/in	on tensile bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	on tensile bar; SABIC Method
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 250 ^o C	25 g/10 min @Load 11.0 lb, Temperature 482 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	5 mm/min; ISO 527
Tensile Strength, Yield	125 MPa	18100 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	10.0 GPa	1450 ksi	1 mm/min; ISO 527
Flexural Strength	210 MPa	30500 psi	2 mm/min; ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 ^o C	3.33 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
	8.00 kJ/m ²	3.81 ft-lb/in ²	

Mechanical Properties	Metric	English	80*10*4; ISO 180/1A Comments
	@ Temperature 23.0 Â°C	@ Temperature 73.4 Â°F	
Izod Impact, Unnotched (ISO)	45.0 kJ/mÂ² @Temperature 23.0 Â°C	21.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
	45.0 kJ/mÂ² @Temperature -30.0 Â°C	21.4 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	5.00 J/cmÂ² @Temperature 23.0 Â°C	23.8 ft-lb/inÂ² @Temperature 73.4 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	5.00 J/cmÂ² @Temperature -30.0 Â°C	23.8 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.600 J/cmÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.700 J/cmÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Taber Abrasion, mg/1000 Cycles	22 @Load 1.00 kg	22 @Load 2.20 lb	CS-17; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	13.9 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	120 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	66.7 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	205 Â°C	401 Â°F	Rate B/50; ISO 306
			Rate B/120; ISO 306

Thermal Properties	208 Â°C Metric	406 Â°F English	Comments
	220 Â°C	428 Â°F	Rate A/50; ISO 306
UL RTI, Electrical	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical with Impact	130 Â°C	266 Â°F	UL 746B
UL RTI, Mechanical without Impact	140 Â°C	284 Â°F	UL 746B
Flammability, UL94	V-2	V-2	UL 94
	@Thickness 0.500 mm	@Thickness 0.0197 in	
	V-0	V-0	UL 94
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	5VA	5VA	UL 94
	@Thickness 2.30 mm	@Thickness 0.0906 in	
Oxygen Index	32 %	32 %	LOI; ISO 4589
Glow Wire Test	960 Â°C	1760 Â°F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	

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	3.3	3.3	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.3	3.3	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
	22.0 kV/mm	559 kV/in	in oil; IEC 60243-1
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.010	0.010	IEC 60250

Electrical Properties	@Frequency 1.00e+6 Metric	@Frequency 1.00e+6 English	Comments
Comparative Tracking Index	175 V	175 V	IEC 60112

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

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