

SABIC Innovative Plastics Valox® V3500EX PBT

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

Material Notes:

PBT, Flame Retardant, Heat Stabilized, Extrusion grade for monofilament/Fiber Application This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V3500EX-PBT.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.080 %	0.080 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 % @Temperature 23.0 ^o C	0.35 % @Temperature 73.4 ^o F	ISO 62
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 250 ^o C	13 g/10 min @Load 4.76 lb, Temperature 482 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	>= 80 %	>= 80 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	2.90 GPa	421 ksi	1 mm/min; ISO 527
Flexural Yield Strength	88.0 MPa	12800 psi	2 mm/min; ISO 178
Flexural Modulus	2.60 GPa	377 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature 23.0 ^o C	2.86 ft-lb/in ² @Temperature 73.4 ^o F	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0 ^o C	2.86 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.500 J/cm ² @Temperature 23.0	2.38 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	55.6 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	100 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	55.6 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	62.0 Å°C	144 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	180 Å°C	356 Å°F	Rate B/50; ISO 306
	180 Å°C	356 Å°F	Rate B/120; ISO 306
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94 by SABIC-IP

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