

SABIC Innovative Plastics Valox® K3501 PBT (Europe-Africa-Middle East)

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

Material Notes:

Unfilled PBT, Hydrolytically Stable, Heat Stabilized, Impact Modified. A hydrolytically stable grade designed for improved performance under heat/humidity environments. Targeted at automotive underhood applications requiring USCAR-2 Class III humidity/heat performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-K3501-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.34 %	0.34 %	ISO 62
Melt Index of Compound	26 g/10 min @Load 2.16 kg, Temperature 250 Â°C	26 g/10 min @Load 4.76 lb, Temperature 482 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Break	40 %	40 %	50 mm/min; ISO 527
	50 %	50 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	Type I, 50 mm/min; ASTM D638
	3.5 %	3.5 %	50 mm/min; ISO 527
Tensile Modulus	2.10 GPa	305 ksi	1 mm/min; ISO 527
	2.40 GPa	348 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	70.0 MPa	10200 psi	1.3 mm/min, 50 mm span; ASTM D790
	70.0 MPa	10200 psi	2 mm/min; ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
	2.10 GPa	305 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
Izod Impact, Unnotched	NB	NB	ASTM D4812
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	91.0 Âµm/m-Â°C	50.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	97.0 Âµm/m-Â°C	53.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 Â°C	113 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	45.0 Â°C	113 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	165 Â°C	329 Â°F	Rate B/120; ISO 306

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