

SABIC Innovative Plastics Valox® V9561 PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Flame retardant PET, 30% Glass fiber filled. Offering a good balance in CTI , GWIT , High Heat and mechanical performances.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V9561-PET.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	ISO 1183
Moisture Absorption	0.250 %	0.250 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.050 %	0.050 %	ISO 62
Melt Index of Compound	33 g/10 min @Load 5.00 kg, Temperature 280 [°] C	33 g/10 min @Load 11.0 lb, Temperature 536 [°] F	MVR [cm ³ /10 min]; 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	12.0 GPa	1740 ksi	1 mm/min; ISO 527
Flexural Yield Strength	190 MPa	27600 psi	2 mm/min; ISO 178
Flexural Modulus	10.75 GPa	1559 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	7.00 kJ/m ² @Temperature -30.0 [°] C	3.33 ft-lb/in ² @Temperature -22.0 [°] F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 [°] µm/m- [°] C @Temperature 23.0 - 80.0 [°] C	10.6 [°] µin/in- [°] F @Temperature 73.4 - 176 [°] F	ISO 11359-2

Thermal Properties	67.0 Âµm/m-Â°C Metric	37.2 Âµin/in-Â°F English	Comments
CTE, linear, Transverse to Flow	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	230 Â°C	446 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	225 Â°C	437 Â°F	Rate B/50; ISO 306
	230 Â°C	446 Â°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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