

SABIC Innovative Plastics Valox® V9561 PET (Europe-Africa-Middle East)

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-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	ASTM D792
Density	1.74 g/cc	0.0629 lb/in ³	ISO 1183
Filler Content	36 %	36 %	ASTM D229
Moisture Absorption	0.250 %	0.250 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.050 %	0.050 %	ISO 62
Viscosity	260000 cP	260000 cP	Melt Viscosity, 260°C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	on Tensile Bar; SABIC Method
Melt Flow	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 265 °C	@Load 11.0 lb, Temperature 509 °F	
	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 266 °C	@Load 11.0 lb, Temperature 511 °F	
Melt Index of Compound	33 g/10 min	33 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 280 °C	@Load 11.0 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ISO 2039-2
Hardness, H358/30	265 MPa	38400 psi	ISO 2039-1
Tensile Strength at Break	143 MPa	20700 psi	5 mm/min; ISO 527
	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	143 MPa	20700 psi	5 mm/min; ISO 527
	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D638

Elongation at Break Mechanical Properties	2.0 % Metric	2.0 % English	5 mm/min; ISO 527 Comments
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.3 %	2.3 %	Flexural Strain, break, 2 mm/min; ISO 178
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.0 GPa	1890 ksi	1 mm/min; ISO 527
	13.0 GPa	1890 ksi	5 mm/min; ASTM D638
Flexural Strength	190 MPa	27600 psi	2 mm/min; ISO 178
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	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Unnotched	5.50 J/cm	10.3 ft-lb/in	ASTM D4812
	4.25 J/cm	7.96 ft-lb/in	ASTM D4812
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U
	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/2C
	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	5.4mm, 20, 10*4 sp=62mm, ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/2C
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 µm/m-°C	10.6 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	67.0 µm/m-°C	37.2 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	235 °C	455 °F	Rate B/50; ASTM D1525
	235 °C	455 °F	Rate B/50; ISO 306
	235 °C	455 °F	Rate B/120; ISO 306
	255 °C	491 °F	Rate A/50; ISO 306
	255 °C	491 °F	Rate A/50; ASTM D1525
UL RTI, Electrical	150 °C	302 °F	UL 746B
UL RTI, Mechanical with Impact	90.0 °C	194 °F	UL 746B
UL RTI, Mechanical without Impact	150 °C	302 °F	UL 746B
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Glow Wire Test	800 °C	1470 °F	IEC 60695-2-13
	800 °C	1470 °F	IEC 60695-2-13
	800 °C	1470 °F	IEC 60695-2-13
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 1.00 - 3.00 mm	@Thickness 0.0394 - 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	200 V	200 V	IEC 60112
	175 - 250 V	175 - 250 V	UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	15 - 30 arcs	15 - 30 arcs	UL 746A

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

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