

SABIC Innovative Plastics Valox® V8030CS PBT+PET

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

Glass filled Valox with enhanced surface

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V8030CS-PBTPET.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Melt Index of Compound	16 g/10 min	16 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 265 °C	@Load 4.76 lb, Temperature 509 °F	
	42 g/10 min	42 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 265 °C	@Load 11.0 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	92.0 MPa	13300 psi	5 mm/min; ISO 527
	98.0 MPa	14200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	95.0 MPa	13800 psi	5 mm/min; ISO 527
	99.0 MPa	14400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	3.4 %	3.4 %	Flexural Strain, break, 2 mm/min; ISO 178
	8.6 %	8.6 %	Nominal Strain, 5 mm/min; ASTM D638
Elongation at Yield	2.1 %	2.1 %	5 mm/min; ISO 527
	2.7 %	2.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.69 GPa	825 ksi	5 mm/min; ASTM D638
	5.88 GPa	853 ksi	1 mm/min; ISO 527
Flexural Strength	148 MPa	21500 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	151 MPa	21900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.38 GPa	780 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.48 GPa	795 ksi	ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.30 J/cm ²	10.9 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	216 °C @Thickness 3.20 mm	421 °F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C @Thickness 3.20 mm	190 °F @Thickness 0.126 in	ASTM D648
Vicat Softening Point	222 °C	432 °F	Rate A/50; ISO 306
	222 °C	432 °F	Rate A/120; ISO 306
	224 °C	435 °F	Rate A/50; ASTM D1525

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