

SABIC Innovative Plastics Valox® SHF434HR PBT

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

Material Notes:

PBT, Super High Flow, 20% glass reinforced, hydrolytically resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-SHF434HR-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.28 %	0.28 %	ISO 62
Melt Flow	39 g/10 min @Load 2.16 kg, Temperature 250 ^o C	39 g/10 min @Load 4.76 lb, Temperature 482 ^o F	ASTM D1238
Melt Index of Compound	27 g/10 min @Load 2.16 kg, Temperature 250 ^o C	27 g/10 min @Load 4.76 lb, Temperature 482 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	Type I, 5 mm/min; ASTM D638
	103 MPa	14900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	100 MPa	14500 psi	Type I, 5 mm/min; ASTM D638
	103 MPa	14900 psi	5 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.2 %	2.2 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.68 GPa	969 ksi	1 mm/min; ISO 527
	8.05 GPa	1170 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	147 MPa	21300 psi	2 mm/min; ISO 178
	156 MPa	22600 psi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	^{D790} Comments
Flexural Modulus	5.49 GPa	796 ksi	2 mm/min; ISO 178
	6.20 GPa	899 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
	0.780 J/cm @Temperature -30.0 Â°C	1.46 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
	7.00 kJ/mÂ² @Temperature -30.0 Â°C	3.33 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Âµm/m-Â°C	25.0 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	120 Âµm/m-Â°C	66.7 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)	204 Â°C	399 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	200 Â°C	392 Â°F	Rate B/120; ISO 306
	202 Â°C	396 Â°F	Rate B/50; ASTM D1525
	202 Â°C	396 Â°F	Rate B/50; ISO 306

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