

SABIC Innovative Plastics Valox[®] EH7020HF PBT+PET

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PET + PBT Unreinforced , Polyethylene Terephthalate (PET)

Material Notes:

Valox EH7020HF is a mineral filled PBT/PET that offers good surface appearance, high flow and good heat performance. EH7020HF was developed for automotive bezel application that requires basecoat + top coat metalization. EH7020HF is higher flow version of EH7020.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-EH7020HF-PBTPET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Melt Flow	36 g/10 min	36 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 266 °C	@Load 2.65 lb, Temperature 511 °F	
	64 g/10 min	64 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 °C	@Load 4.76 lb, Temperature 509 °F	
Melt Index of Compound	52 g/10 min	52 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 265 °C	@Load 4.76 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	57.0 MPa	8270 psi	5 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	5 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.80 GPa	696 ksi	1 mm/min; ISO 527
	5.88 GPa	853 ksi	5 mm/min; ASTM D638
	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM

Flexural Yield Strength Mechanical Properties	Metric	English	D790 Comments
	96.0 MPa	13900 psi	2 mm/min; ISO 178
Flexural Modulus	4.68 GPa	679 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.71 GPa	683 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Â°C	171 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	70.0 Â°C	158 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	179 Â°C	354 Â°F	Rate B/120; ISO 306

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