

SABIC Innovative Plastics Valox® 195HP PBT

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

Material Notes:

PELLET FORM. For compounding only (not for injection molding). Unreinforced PBT. FDA 21CFR177.1660 compliant. Melt viscosity between 740 and 900 poise. Natural Color (1001) Only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-195HP-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.080 % @Time 86400 sec	0.080 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0090 - 0.016 cm/cm @Thickness 0.750 - 2.30 mm	0.0090 - 0.016 in/in @Thickness 0.0295 - 0.0906 in	SABIC Method
	0.015 - 0.023 cm/cm @Thickness 2.30 - 4.60 mm	0.015 - 0.023 in/in @Thickness 0.0906 - 0.181 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.010 - 0.017 cm/cm @Thickness 0.750 - 2.30 mm	0.010 - 0.017 in/in @Thickness 0.0295 - 0.0906 in	SABIC Method
	0.016 - 0.024 cm/cm @Thickness 2.30 - 4.60 mm	0.016 - 0.024 in/in @Thickness 0.0906 - 0.181 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	17.9 %	17.9 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.39 GPa	347 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.5 J/cm	34.7 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
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Thermal Properties	81.0 Åµm/m-Å°C Metric	45.0 Åµin/in-Å°F English	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ASTM E 831
	139 Åµm/m-Å°C	77.2 Åµin/in-Å°F	ASTM E 831
	@Temperature 60.0 - 138 Å°C	@Temperature 140 - 280 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	128 Å°C	262 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	49.0 Å°C	120 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Descriptive Properties	Value	Comments
Specific Volume	0.76cm ³ /g	ASTM D792

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