

SABIC Innovative Plastics Valox® 195 PBT

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

Material Notes:

PELLET FORM. For compounding only (not for injection molding). Unreinforced PBT. 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-195-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 Âµm/m-Â°C Metric	45.0 Âµin/in-Â°F English	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	139 Âµm/m-Â°C	77.2 Âµin/in-Â°F	ASTM E 831
	@Temperature 60.0 - 138 Â°C	@Temperature 140 - 280 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	128 Â°C	262 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	49.0 Â°C	120 Â°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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