

SABIC Innovative Plastics Valox[®] 295 PBT

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

Material Notes:

Unreinforced PBT This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-295-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D 792
Water Absorption	0.080 %	0.080 %	ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0090 - 0.016 cm/cm	0.0090 - 0.016 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
	0.015 - 0.023 cm/cm	0.015 - 0.023 in/in	SABIC Method
	@Thickness 2.30 - 4.60 mm	@Thickness 0.0906 - 0.181 in	
Linear Mold Shrinkage, Transverse	0.010 - 0.017 cm/cm	0.010 - 0.017 in/in	SABIC Method
	@Thickness 0.750 - 2.30 mm	@Thickness 0.0295 - 0.0906 in	
	0.016 - 0.024 cm/cm	0.016 - 0.024 in/in	SABIC Method
	@Thickness 2.30 - 4.60 mm	@Thickness 0.0906 - 0.181 in	
Melt Flow	70 g/10 min	70 g/10 min	ASTM D 1238
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	14 %	14 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	3.7 %	3.7 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.67 GPa	387 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	16.02 J/cm @Temperature 23.0 Â°C	30.01 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Gardner Impact	40.0 J @Temperature 23.0 Â°C	29.5 ft-lb @Temperature 73.4 Â°F	ASTM D 3029

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	81.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	45.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	139 Âµm/m-Â°C @Temperature 60.0 - 138 Â°C	77.2 Âµin/in-Â°F @Temperature 140 - 280 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	154 Â°C @Thickness 6.40 mm	309 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C @Thickness 3.20 mm	122 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	54.0 Â°C @Thickness 6.40 mm	129 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	170 Â°C	338 Â°F	Rate B/50; ASTM D 1525

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