

SABIC Innovative Plastics Valox® V2000DM PBT

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

Material Notes:

Unreinforced, directly metallizable PBT injection molding resin with high flow better release characteristics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V2000DM-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Moisture Absorption	0.340 %	0.340 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.080 %	0.080 %	ISO 62
Linear Mold Shrinkage, Flow	0.021 - 0.024 cm/cm @Thickness 3.20 mm	0.021 - 0.024 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	35.4 g/10 min @Load 2.16 kg, Temperature 250 ^o C	35.4 g/10 min @Load 4.76 lb, Temperature 482 ^o F	ASTM D1238
Melt Index of Compound	34 g/10 min @Load 2.16 kg, Temperature 250 ^o C	34 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	40.0 MPa	5800 psi	Type I, 50 mm/min; ASTM D638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 50 mm/min; ASTM D638
	59.0 MPa	8560 psi	50 mm/min; ISO 527
Elongation at Break	15 %	15 %	50 mm/min; ISO 527
	100 %	100 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	50 mm/min; ISO 527
	20 %	20 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.80 GPa	406 ksi	5 mm/min; ASTM D638
	3.00 GPa	435 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric ^{Pa}	English ^{psi}	Comments
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
	2.57 GPa	373 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.460 J/cm	0.862 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
	2.00 kJ/mÂ²	0.952 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	54.0 J	39.8 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.0 Âµm/m-Â°C	46.7 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	84.0 Âµm/m-Â°C	46.7 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	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	80.0 Âµm/m-Â°C	44.4 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)	53.0 Â°C	127 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/1Af
	54.0 Â°C	129 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	185 Â°C	365 Â°F	Rate B/50; ASTM D1525

Thermal Properties	185 Â°C Metric	365 Â°F English	Rate B/120; ISO 306 Comments
	186 Â°C	367 Â°F	Rate B/50; ISO 306

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