

SABIC Innovative Plastics Valox[®] VC120 PBT (Asia Pacific)

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

Material Notes:

This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-VC120-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D 792
Water Absorption	0.070 %	0.070 %	ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0060 - 0.0070 cm/cm	0.0060 - 0.0070 in/in	SABIC Method
	@Thickness 6.40 mm	@Thickness 0.252 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	154 MPa	22300 psi	SABIC - Japan Method
Elongation at Break	3.0 %	3.0 %	SABIC - Japan Method
Flexural Strength	216 MPa	31300 psi	ASTM D 790
Flexural Modulus	12.06 GPa	1749 ksi	ASTM D 790
Izod Impact, Notched	0.880 J/cm	1.65 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	TMA
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	206 Å°C	403 Å°F	unannealed; ASTM D 648
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 1.00e+8 ohm	1000 - 1.00e+8 ohm	ASTM D 257

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