

SABIC Innovative Plastics Valox[®] VAC3001 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-VAC3001-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D 792
Water Absorption	0.080 % @Time 86400 sec	0.080 % @Time 24.0 hour	ASTM D 570
Linear Mold Shrinkage, Flow	0.017 - 0.023 cm/cm @Thickness 3.20 mm	0.017 - 0.023 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D 785
Tensile Strength, Yield	51.0 MPa	7400 psi	SABIC - Japan Method
Elongation at Break	160 %	160 %	SABIC - Japan Method
Flexural Strength	84.0 MPa	12200 psi	ASTM D 790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D 790
Izod Impact, Notched	0.590 J/cm @Temperature 23.0 Â°C	1.11 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear	130 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	72.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	TMA
Deflection Temperature at 0.46 MPa (66 psi)	55.0 Â°C @Thickness 3.20 mm	131 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D 257
	3.3	3.3	

Dielectric Constant Electrical Properties	Metric @ Frequency 50.0 - 60.0 Hz	English @ Frequency 50.0 - 60.0 Hz	ASTM D 150 Comments
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