

SABIC Innovative Plastics Valox® VIC4311 PBT (Asia Pacific)

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-VIC4311-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
	0.0060 - 0.0080 cm/cm @Thickness 6.40 mm	0.0060 - 0.0080 in/in @Thickness 0.252 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	96.0 MPa	13900 psi	SABIC - Japan Method
Elongation at Break	5.0 %	5.0 %	SABIC - Japan Method
Flexural Strength	128 MPa	18600 psi	ASTM D790
Flexural Modulus	6.08 GPa	882 ksi	ASTM D790
Izod Impact, Notched	1.37 J/cm	2.57 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	16.7 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	TMA
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C @Thickness 3.20 mm	428 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C @Thickness 3.20 mm	401 Å°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	ASTM D138

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