

SABIC Innovative Plastics Valox® DR48M 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-DR48M-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D 792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
	0.0080 - 0.010 cm/cm @Thickness 6.40 mm	0.0080 - 0.010 in/in @Thickness 0.252 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D 785
Tensile Strength, Yield	98.0 MPa	14200 psi	SABIC - Japan Method
Elongation at Break	5.0 %	5.0 %	SABIC - Japan Method
Flexural Strength	148 MPa	21500 psi	ASTM D 790
Flexural Modulus	5.39 GPa	782 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	40.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	22.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	TMA
Deflection Temperature at 0.46 MPa (66 psi)	201 Â°C @Thickness 3.20 mm	394 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	unannealed; ASTM D 648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.710 mm	@Thickness 0.0280 in	
	5VA	5VA	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D 257
Dielectric Constant	3.6	3.6	ASTM D 150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	Tungsten, PLC code 7; ASTM D 495

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