

## SABIC Innovative Plastics Valox<sup>®</sup> 350U PBT (Asia Pacific)

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

### Material Notes:

Impact modified, UV stabilised, flame retardant polyester with an internal glowwire rating of 850C on 1.6mm flat plaques. 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-350U-PBT-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-350U-PBT-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D 792
Water Absorption	0.14 % @Time 86400 sec	0.14 % @Time 24.0 hour	ASTM D 570
Linear Mold Shrinkage, Flow	0.010 - 0.014 cm/cm @Thickness 3.20 mm	0.010 - 0.014 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 5.00 kg, Temperature 250 °C	16 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	100 %	100 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.25 GPa	326 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	88.0 MPa	12800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.25 GPa	326 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	7.58 J/cm @Temperature 23.0 °C	14.2 ft-lb/in @Temperature 73.4 °F	ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	198 µm/m-°C @Temperature -40.0 -	110 µin/in-°F @Temperature -40.0 -	ASTM E 831

Thermal Properties	60.0 Å°C Metric	140 Å°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Å°C @Thickness 3.20 mm	180 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	130 Å°C	266 Å°F	Rate B/50; ASTM D 1525
UL RTI, Electrical	80.0 Å°C	176 Å°F	UL 746B
UL RTI, Mechanical with Impact	80.0 Å°C	176 Å°F	UL 746B
UL RTI, Mechanical without Impact	80.0 Å°C	176 Å°F	UL 746B

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D 257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D 257
Comparative Tracking Index	225 V	225 V	IEC 60112

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