

## SABIC Innovative Plastics Valox<sup>®</sup> ENH3500 PBT (Asia Pacific)

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

### Material Notes:

Unfilled PBT, Non-Brominated & Non-Chlorinated Flame Retardant

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Valox-ENH3500-PBT-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-ENH3500-PBT-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.018 - 0.028 cm/cm	0.018 - 0.028 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	20 g/10 min @Load 2.16 kg, Temperature 250 °C	20 g/10 min @Load 4.76 lb, Temperature 482 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	50 mm/min; ISO 527
	42.0 MPa	6090 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	39.0 MPa	5660 psi	50 mm/min; ISO 527
	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	8.0 %	8.0 %	50 mm/min; ISO 527
	10 %	10 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 50 mm/min; ASTM D638
	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	3.15 GPa	457 ksi	5 mm/min; ASTM D638
	3.20 GPa	464 ksi	1 mm/min; ISO 527
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	2 mm/min; ISO 178
	2.75 GPa	399 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact Notched Mechanical Properties	0.400 J/cm Metric	0.749 ft-lb/in English	ASTM D256 Comments
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	50.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	60.0 °C @Thickness 3.20 mm	140 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	170 °C	338 °F	Rate B/120; ISO 306
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
	600 V	600 V	IEC 60112

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China