

## SABIC Innovative Plastics Valox<sup>®</sup> ENH8530 PBT+PET (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

### Material Notes:

Non-Brominated & Non-Chlorinated Flame Retardant, 15% Glass fiber reinforced PBT/PET blend

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Valox-ENH8530-PBTPET-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-ENH8530-PBTPET-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ISO 1183
Filler Content	15 %	15 %	ASTM D229
Viscosity	145000 cP	145000 cP	Melt Viscosity, 260 <sup>°</sup> C, 1500 sec-1; ISO 11443
Melt Flow	15 g/10 min	15 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 250 <sup>°</sup> C	@Load 11.0 lb, Temperature 482 <sup>°</sup> F	
	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 <sup>°</sup> C	@Load 4.76 lb, Temperature 509 <sup>°</sup> F	
Melt Index of Compound	5.0 g/10 min	5.0 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 265 <sup>°</sup> C	@Load 2.65 lb, Temperature 509 <sup>°</sup> F	
	11 g/10 min	11 g/10 min	MVR [cm <sup>3</sup> /10 min]; ASTM D1238
	@Load 5.00 kg, Temperature 250 <sup>°</sup> C	@Load 11.0 lb, Temperature 482 <sup>°</sup> F	
	13 g/10 min	13 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 265 <sup>°</sup> C	@Load 4.76 lb, Temperature 509 <sup>°</sup> F	
	45 g/10 min	45 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 265 <sup>°</sup> C	@Load 11.0 lb, Temperature 509 <sup>°</sup> F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039-2
Hardness, H358/30	142 MPa	20600 psi	ISO 2039-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	75.0 MPa	10900 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	7.20 GPa	1040 ksi	Flexural Strain, break, 2 mm/min; ISO 178
Flexural Strength	7.40 GPa	1070 ksi	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	5 mm/min; ISO 527
Flexural Modulus	125 MPa	18100 psi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	110 MPa	16000 psi	2 mm/min; ISO 178
Izod Impact, Notched	125 MPa	18100 psi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	110 MPa	16000 psi	2 mm/min; ISO 178
Izod Impact, Notched	125 MPa	18100 psi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.00 GPa	870 ksi	2 mm/min; ISO 178
Izod Impact, Notched	6.30 GPa	914 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Izod Impact, Notched	@Temperature 0.000 Å°C	@Temperature 32.0 Å°F	ASTM D256
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Izod Impact, Notched	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	ASTM D256
Izod Impact, Unnotched	3.30 J/cm	6.18 ft-lb/in	ASTM D4812
Izod Impact, Unnotched	2.80 J/cm	5.25 ft-lb/in	ASTM D4812
Izod Impact, Unnotched	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÅ²	2.38 ft-lb/inÅ²	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	5.00 kJ/m <sup>2</sup> @Temperature 0.000 Â°C	2.38 ft-lb/in <sup>2</sup> @Temperature 32.0 Â°F	80*10*4; ISO 180/1A
	5.00 kJ/m <sup>2</sup> @Temperature -30.0 Â°C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
	20.0 kJ/m <sup>2</sup> @Temperature -30.0 Â°C	9.52 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	2.30 J/cm <sup>2</sup>	10.9 ft-lb/in <sup>2</sup>	ISO 179/2C
	2.00 J/cm <sup>2</sup> @Temperature -30.0 Â°C	9.52 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	ISO 179/2C
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179/2C
	0.500 J/cm <sup>2</sup> @Temperature -30.0 Â°C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 Â°F	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 Âµm/m-Â°C	17.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	46.0 Âµm/m-Â°C	25.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 150 Â°C	@Temperature 73.4 - 302 Â°F	
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C	35.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	165 Âµm/m-Â°C	91.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 150 Â°C	@Temperature 73.4 - 302 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	215 Â°C @Thickness 3.20 mm	419 Â°F @Thickness 0.126 in	
			unannealed; ASTM D648

Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties	180 Â°C Metric	356 Â°F English	Flame: 80+10+4 sp=64mm; ISO 75/Af Comments
	190 Â°C @Thickness 3.20 mm	374 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	3.3 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	ASTM D150
	3.3 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	19.0 kV/mm @Thickness 3.20 mm	483 kV/in @Thickness 0.126 in	in oil; ASTM D149
	19.0 kV/mm @Thickness 3.20 mm	483 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
	28.0 kV/mm @Thickness 1.60 mm	711 kV/in @Thickness 0.0630 in	in oil; ASTM D149
	28.0 kV/mm @Thickness 1.60 mm	711 kV/in @Thickness 0.0630 in	in oil; IEC 60243-1
	38.0 kV/mm @Thickness 0.800 mm	965 kV/in @Thickness 0.0315 in	in oil; IEC 60243-1
	38.0 kV/mm @Thickness 0.800 mm	965 kV/in @Thickness 0.0315 in	in oil; ASTM D149
	38.0 kV/mm @Thickness 0.800 mm	965 kV/in @Thickness 0.0315 in	in oil; ASTM D149
Dissipation Factor	0.010 @Frequency 1.00e+6 Hz	0.010 @Frequency 1.00e+6 Hz	ASTM D150
	0.010 @Frequency 1.00e+6 Hz	0.010 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	400 V	400 V	IEC 60112

Electrical Properties	Metric <sup>100 V</sup>	English <sup>10 V</sup>	Comments
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

## 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