

SABIC Innovative Plastics Valox® K4560 PBT (Europe-Africa-Middle East)

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

Material Notes:

30% glass reinforced PBT. Impact modified, high flow, hydrolytically stable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-K4560-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Filler Content	30 %	30 %	glass; ISO 3451
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm @Thickness 3.20 mm	0.010 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	12 g/10 min @Load 2.16 kg, Temperature 250 Â°C	12 g/10 min @Load 4.76 lb, Temperature 482 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.0 MPa	13900 psi	Type I, 50 mm/min; ASTM D638
	102 MPa	14800 psi	Type I, 5 mm/min; ASTM D638
	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D638
	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
	112 MPa	16200 psi	Type I, 5 mm/min; ASTM D638
	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D638
	120 MPa	17400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	112 MPa	16200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	4.0 % Metric	4.0 % English	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790 Comments
	4.2 %	4.2 %	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790
	4.2 %	4.2 %	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790
	4.5 %	4.5 %	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.84 GPa	1280 ksi	5 mm/min; ASTM D638
Flexural Strength	173 MPa	25100 psi	1.3 mm/min, 50 mm span; ASTM D790
	175 MPa	25400 psi	2 mm/min; ISO 178
Flexural Modulus	7.10 GPa	1030 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.20 GPa	1040 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.40 GPa	1070 ksi	2 mm/min; ISO 178
	7.40 GPa	1070 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.50 GPa	1090 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.00 GPa	1160 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.17 J/cm	15.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/mÂ²	5.23 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/mÂ²	24.7 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	ASTM D3763
	7.00 J	5.16 ft-lb	ASTM D3763
	8.00 J	5.90 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C @Thickness 3.20 mm	428 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed, ASTM D648
Vicat Softening Point	204 Â°C	399 Â°F	Rate B/120; ISO 306

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