

SABIC Innovative Plastics Valox® K4560 PBT

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.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

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
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 %	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	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

Mechanical Properties	Metric	English	span: ASTM D790 Comments
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
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	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
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	428 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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