

SABIC Innovative Plastics Valox[®] K4530 PBT (Europe-Africa-Middle East)

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

Material Notes:

15% glass reinforced PBT, Hydrolytically stable, High flow, Automotive connectors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-K4530-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 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	
Melt Index of Compound	17 g/10 min	17 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 250 Å°C	@Load 4.76 lb, Temperature 482 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.0 MPa	11900 psi	Type I, 5 mm/min; ASTM D638
	89.0 MPa	12900 psi	Type I, 5 mm/min; ASTM D638
	98.0 MPa	14200 psi	Type I, 5 mm/min; ASTM D638
	98.0 MPa	14200 psi	5 mm/min; ISO 527
	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	98.0 MPa	14200 psi	5 mm/min; ISO 527
	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	3.1 %	3.1 %	5 mm/min; ISO 527
	3.8 %	3.8 %	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	7.0 %	7.0 %	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790
	9.7 %	9.7 %	Flexural Strain, 1.3 mm/min, 50 mm span; ASTM D790
Elongation at Yield	3.1 %	3.1 %	5 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.55 GPa	515 ksi	5 mm/min; ASTM D638
	5.25 GPa	761 ksi	1 mm/min; ISO 527
Flexural Strength	150 MPa	21800 psi	1.3 mm/min, 50 mm span; ASTM D790
	150 MPa	21800 psi	2 mm/min; ISO 178
Flexural Yield Strength	150 MPa	21800 psi	2 mm/min; ISO 178
Flexural Modulus	4.52 GPa	656 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.64 GPa	673 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.75 GPa	689 ksi	2 mm/min; ISO 178
	4.82 GPa	699 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.10 GPa	740 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.00 J/cm	7.49 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	ASTM D3763
	5.00 J	3.69 ft-lb	ASTM D3763
	6.00 J	4.43 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties Deflection Temperature at 1.8 MPa (204 psi)	193 Â°C Metric	379 Â°F English	Comments ; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	205 Â°C	401 Â°F	Rate B/120; ISO 306

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