

SABIC Innovative Plastics Valox® 732E PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass + Mineral Filled

Material Notes:

30% glass/mineral reinforced, excellent thermal performance, low shrinkage and warp. Easy flow. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-732E-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D 792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 1.50 - 3.20 mm	0.0030 - 0.0040 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
	0.0040 - 0.0060 cm/cm @Thickness 3.20 - 4.60 mm	0.0040 - 0.0060 in/in @Thickness 0.126 - 0.181 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 1.50 - 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.0591 - 0.126 in	SABIC Method
	0.0060 - 0.0080 cm/cm @Thickness 3.20 - 4.60 mm	0.0060 - 0.0080 in/in @Thickness 0.126 - 0.181 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D 785
Tensile Strength at Break	82.0 MPa	11900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
Flexural Strength	124 MPa	18000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	6.89 GPa	999 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.01 J/cm @Temperature 23.0 Å°C	1.89 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256

Mechanical Properties <i>Izod Impact, Unnotched</i>	5.34 J/cm Metric	75.25 lb/in English	Comments ASTM D 4812
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature 60.0 - 138 Â°C	@Temperature 140 - 280 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	215 Â°C	419 Â°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	198 Â°C	388 Â°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D 257
Dielectric Constant	3.32	3.32	ASTM D 150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.53	3.53	ASTM D 150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	17.9 kV/mm	455 kV/in	in oil; ASTM D 149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0080	0.0080	ASTM D 150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.013	0.013	ASTM D 150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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