SABIC Innovative Plastics ValoxÂ® 7062HP PBT (Europe-Africa-Middle East)

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

Material Notes:

ENDURAN 7062HP is a 38% mineral filled & FDA compliance injection moulding resin.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-7062HP-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.81 g/cc	1.81 g/cc	ASTM D792
Density	1.81 g/cc	0.0654 lb/inÂ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.070 %	0.070 %	ISO 62
Linear Mold Shrinkage, Flow	0.012 - 0.019 cm/cm @Thickness 3.20 mm	0.012 - 0.019 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	33 g/10 min @Load 1.20 kg, Temperature 266 Â°C	33 g/10 min @Load 2.65 lb, Temperature 511 Â°F	ASTM D1238
Melt Index of Compound	21 g/10 min @Load 1.20 kg, Temperature 265 Â°C	21 g/10 min @Load 2.65 lb, Temperature 509 Â°F	MVR [cm^3/10 min]; ISO 1133
	41 g/10 min @Load 2.16 kg, Temperature 265 Â°C	41 g/10 min @Load 4.76 lb, Temperature 509 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	4.12 GPa	598 ksi	5 mm/min; ASTM D638
	4.20 GPa	609 ksi	1 mm/min; ISO 527
Flexural Strength	100 MPa	14500 psi	2 mm/min; ISO 178
	110 MPa	16000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.90 GPa	566 ksi	2 mm/min; ISO 178
	4.48 GPa	650 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
	0.260 J/cm @Temperature -30.0 Â°C	0.487 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Unnotched	4.23 J/cm	7.92 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
	3.00 kJ/mÂ² @Temperature -30.0 Â°C	1.43 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ²	14.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
	30.0 kJ/mÂ² @Temperature -30.0 Â°C	14.3 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	3.70 J/cmÂ²	17.6 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	3.30 J/cmÂ² @Temperature -30.0 Â°C	15.7 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.200 J/cmÂ² @Temperature -30.0 Â°C	0.952 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Mechanical Properties	Metric	English	Comments
Taber Abrasion, mg/1000 Cycles	74	74	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	50.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	90.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
	110 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	61.1 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	50.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	90.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
	110 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	61.1 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
Thermal Conductivity	0.320 W/m-K	2.22 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Â°C	149 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	69.0 Â°C @Thickness 3.20 mm	156 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	175 Â°C	347 Â°F	Rate B/50; ASTM D1525
	175 Â°C	347 Â°F	Rate B/50; ISO 306
	175 Â°C	347 Â°F	Rate B/120; ISO 306
	215 Â°C	419 Â°F	Rate A/50; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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