

## SABIC Innovative Plastics Valox® 830F PBT+PET

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

### Material Notes:

PBT+PET, 30% Glass, Mold Release, Heat Stabilized, For food contact applications

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Valox-830F-PBTPET.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-830F-PBTPET.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Density	1.54 g/cc	0.0556 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23Â°C / 50% RH
	0.0600 %	0.0600 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.15 %	0.15 %	ASTM D570
	0.15 %	0.15 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	18 g/10 min	18 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 Â°C	@Load 4.76 lb, Temperature 509 Â°F	
Melt Index of Compound	13 g/10 min	13 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 260 Â°C	@Load 4.76 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	100 MPa	14500 psi	Type I, 5 mm/min; ASTM D638
	140 MPa	20300 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527
Elongation at Yield	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	2.5 %	2.5 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	9.00 GPa	1310 ksi	5 mm/min; ASTM D538
	9.00 GPa	1310 ksi	1 mm/min; ISO 527
Flexural Yield Strength	170 MPa	24700 psi	1.3 mm/min, 50 mm span; ASTM D790
	200 MPa	29000 psi	2 mm/min; ISO 178
Flexural Modulus	7.00 GPa	1020 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.00 GPa	1160 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	7.00 J	5.16 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Å°C	@Temperature 73.4 - 176 Å°F	
CTE, linear, Transverse to Flow	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	81.0 Åµm/m-Å°C	45.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Å°C	@Temperature 73.4 - 176 Å°F	
Deflection Temperature at 1.8 MPa	202 Å°C	396 Å°F	Edgew 120*10*4 sp=100mm; ISO

(264 psi) Thermal Properties	Metric	English	75/Ae Comments
	195 Â°C	383 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	200 Â°C	392 Â°F	Rate B/50; ASTM D1525
	200 Â°C	392 Â°F	Rate B/50; ISO 306
	205 Â°C	401 Â°F	Rate B/120; ISO 306

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