

SABIC Innovative Plastics Valox® 815F PBT+PET

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

Material Notes:

PBT+PET, 15% 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-815F-PBTPET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.26 %	0.26 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.010 cm/cm @Thickness 3.20 mm	0.0040 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 1.20 kg, Temperature 266 ^o C	16 g/10 min @Load 2.65 lb, Temperature 511 ^o F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 1.20 kg, Temperature 265 ^o C	12 g/10 min @Load 2.65 lb, Temperature 509 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	Type I, 5 mm/min; ASTM D638
	95.0 MPa	13800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	90.0 MPa	13100 psi	Type I, 5 mm/min; ASTM D638
	95.0 MPa	13800 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
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	5.00 GPa	725 ksi	5 mm/min; ASTM D638
	5.40 GPa	783 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Modulus	4.50 GPa	653 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.70 GPa	682 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	0.300 J/cm	0.562 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C	25.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	55.0 µm/m-°C	30.6 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	54.0 µm/m-°C	30.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	85.0 µm/m-°C	47.2 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae

Thermal Properties	Metric	English	Comments
	160 Â°C	320 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	185 Â°C	365 Â°F	Rate B/50; ASTM D1525
	185 Â°C	365 Â°F	Rate B/50; ISO 306
	190 Â°C	374 Â°F	Rate B/120; ISO 306

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