

SABIC Innovative Plastics Valox® 815F PBT+PET (Asia Pacific)

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-Asia-Pacific.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 [°] 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	0.0040 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	16 g/10 min	16 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 266 [°] C	@Load 2.65 lb, Temperature 511 [°] F	
Melt Index of Compound	12 g/10 min	12 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 265 [°] C	@Load 2.65 lb, Temperature 509 [°] F	

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 Flexural Yield Strength	Metric 145 MPa	English 21000 psi	Comments 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 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@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
	25.0 kJ/mÂ²	11.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	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 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Âµm/m-Â°C	25.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	55.0 Âµm/m-Â°C	30.6 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	54.0 Âµm/m-Â°C	30.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ASTM E 831
	85.0 Âµm/m-Â°C	47.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	175 Â°C	347 Â°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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