

SABIC Innovative Plastics Valox® IQ325 PBT (Asia Pacific)

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

Material Notes:

PBT resin, using chemically recycled post consumer PET Bottles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-IQ325-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.16 %	0.16 %	ISO 62
Linear Mold Shrinkage, Flow	0.016 - 0.024 cm/cm @Thickness 3.20 mm	0.016 - 0.024 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	23 g/10 min @Load 2.16 kg, Temperature 250 °C	23 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238
Melt Index of Compound	21 g/10 min @Load 2.16 kg, Temperature 250 °C	21 g/10 min @Load 4.76 lb, Temperature 482 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa	4210 psi	Type I, 50 mm/min; ASTM D638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	14.4 %	14.4 %	50 mm/min; ISO 527
	282.4 %	282.4 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
	3.2 %	3.2 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.03 GPa	294 ksi	1 mm/min; ISO 527
	2.85 GPa	413 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.43 GPa	352 ksi	2 mm/min; ISO 178
	2.56 GPa	371 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256
	0.460 J/cm	0.862 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
	2.00 kJ/mÂ²	0.952 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
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	61.0 J	45.0 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	81.0 Âµm/m-Â°C	45.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	81.0 Âµm/m-Â°C	45.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	48.0 Â°C	118 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	49.0 Â°C	120 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	58.0 Â°C	136 Â°F	Comments
	Metric	English	
	@Thickness 6.40 mm	@Thickness 0.252 in	UNFINISHED; ASTM D648
Vicat Softening Point	161 Â°C	322 Â°F	Rate B/50; ASTM D1525
	165 Â°C	329 Â°F	Rate B/120; ISO 306
	172 Â°C	342 Â°F	Rate B/50; ISO 306

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