

SABIC Innovative Plastics Valox® V2105U PBT (Asia Pacific)

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

Material Notes:

Unreinforced, Wear resistant, UV Stabilized PBT designed for outdoor, agricultural, industrial and automotive applications. This grade has very high impact strength to stiffness ratio.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V2105U-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Density	1.28 g/cc	0.0462 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.34 %	0.34 %	ISO 62
Linear Mold Shrinkage, Flow	0.029 - 0.034 cm/cm @Thickness 3.20 mm	0.029 - 0.034 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.025 - 0.030 cm/cm @Thickness 3.20 mm	0.025 - 0.030 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	9.5 g/10 min @Load 5.00 kg, Temperature 266 °C	9.5 g/10 min @Load 11.0 lb, Temperature 511 °F	ASTM D1238
Melt Index of Compound	8.0 g/10 min @Load 5.00 kg, Temperature 265 °C	8.0 g/10 min @Load 11.0 lb, Temperature 509 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	50 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	39.0 MPa	5660 psi	Type I, 50 mm/min; ASTM D638
	40.0 MPa	5800 psi	50 mm/min; ISO 527
Elongation at Break	230 %	230 %	50 mm/min; ISO 527
	300 %	300 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ISO 527
	17 %	17 %	Type I, 50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.50 GPa	368 ksi	5 mm/min; ASTM D638
	2.54 GPa	368 ksi	1 mm/min; ISO 527
Flexural Yield Strength	62.0 MPa	8990 psi	2 mm/min; ISO 178
	65.0 MPa	9430 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.87 GPa	271 ksi	2 mm/min; ISO 178
	2.06 GPa	299 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	11.6 J/cm	21.7 ft-lb/in	ASTM D256
	1.50 J/cm	2.81 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	98.0 kJ/m ²	46.6 ft-lb/in ²	80*10*4; ISO 180/1A
	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	9.00 J/cm ²	42.8 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	63.0 J	46.5 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	75.0 J	55.3 ft-lb	ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	Metric 47.0 °C	English 113 °F	Comments Flame: 20, 10+4 sp=64mm; ISO 75/Af
	49.0 °C @Thickness 3.20 mm	120 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	158 °C	316 °F	Rate B/50; ASTM D1525
	158 °C	316 °F	Rate B/50; ISO 306
	158 °C	316 °F	Rate B/120; ISO 306

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