

SABIC Innovative Plastics Valox® V8280 PBT+PET

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

Material Notes:

40% GR PBT+PET. High stiffness. Excellent surface aesthetics. Applications include office furniture.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V8280-PBTPET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm @Thickness 3.20 mm	0.0020 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	33 g/10 min @Load 5.00 kg, Temperature 266 Â°C	33 g/10 min @Load 11.0 lb, Temperature 511 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	145 MPa	21000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.75 GPa	1849 ksi	5 mm/min; ASTM D638
Flexural Strength	220 MPa	31900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.68 GPa	1549 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.06 J/cm	1.99 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.27 J/cm	15.5 ft-lb/in	ASTM D4812
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	English $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Comments
CTE, linear, Parallel to Flow	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	73.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	41.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	215 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	419 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	193 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	379 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	Rate B/50; ASTM D1525

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