

SABIC Innovative Plastics Valox® V9260DCS PET (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Color Stable Glass Filled PET (for Dark colors only)

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V9260DCS-PET-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Moisture Absorption	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.27 %	0.27 %	ISO 62
Melt Index of Compound	14 g/10 min @Load 2.16 kg, Temperature 265 ^o C	14 g/10 min @Load 4.76 lb, Temperature 509 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	155 MPa	22500 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	9.60 GPa	1390 ksi	1 mm/min; ISO 527
Flexural Yield Strength	210 MPa	30500 psi	2 mm/min; ISO 178
Flexural Modulus	9.10 GPa	1320 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0 ^o C	2.86 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1U
	35.0 kJ/m ² @Temperature -30.0 ^o C	16.7 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 80.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 176 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 80.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 176 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	230 $\text{Å}^\circ\text{C}$	446 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	230 $\text{Å}^\circ\text{C}$	446 $\text{Å}^\circ\text{F}$	Rate B/50; ISO 306
	235 $\text{Å}^\circ\text{C}$	455 $\text{Å}^\circ\text{F}$	Rate B/120; ISO 306

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