

SABIC Innovative Plastics Valox® V9235 PET (Europe-Africa-Middle East)

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

Material Notes:

Valox heat stabilized, 15% Glass filled grade with mold release based on recycle PET. This grade is typically applied for business Machines applications This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V9235-PET-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.13 %	0.13 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.36 % @Temperature 23.0 °C	0.36 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0032 - 0.0040 cm/cm	0.0032 - 0.0040 in/in	on tensile bar; SABIC Method
Melt Flow	38 g/10 min @Load 5.00 kg, Temperature 265 °C	38 g/10 min @Load 11.0 lb, Temperature 509 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	ASTM D 638
	105 MPa	15200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	95.0 MPa	13800 psi	ASTM D 638
	105 MPa	15200 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Elongation at Yield	1.8 %	1.8 %	ASTM D 638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	6.25 GPa	906 ksi	5 mm/min; ASTM D 638
	6.40 GPa	928 ksi	1 mm/min; ISO 527
Flexural Yield Strength	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Modulus	5.30 GPa	769 ksi	2 mm/min; ISO 178
	0.500 J/cm	0.937 ft-lb/in	

Izod Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ASTM D 256 Comments
	0.500 J/cm	0.937 ft-lb/in	ASTM D 256
	@ Temperature -30.0 °C	@ Temperature -22.0 °F	
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@ Temperature -30.0 °C	@ Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1U
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1U
	@ Temperature -30.0 °C	@ Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 µm/m-°C	17.2 µin/in-°F	ISO 11359-2
	@ Temperature 23.0 - 80.0 °C	@ Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	94.0 µm/m-°C	52.2 µin/in-°F	ISO 11359-2
	@ Temperature 23.0 - 80.0 °C	@ Temperature 73.4 - 176 °F	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	230 °C	446 °F	Rate B/50; ISO 306
	230 °C	446 °F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	PASS	IEC 60695-10-2

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