

## SABIC Innovative Plastics Valox® V9230CS PET (Europe-Africa-Middle East)

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

### Material Notes:

15% GF PET Injection Moulding grade, Heat and Color Stabilised, for light colors 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-V9230CS-PET-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-V9230CS-PET-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.12 %	0.12 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 % @Temperature 23.0 °C	0.35 % @Temperature 73.4 °F	ISO 62
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 265 °C	12 g/10 min @Load 2.65 lb, Temperature 509 °F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	100 MPa	14500 psi	5 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
Elongation at Yield	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	6.20 GPa	899 ksi	1 mm/min; ISO 527
Flexural Yield Strength	160 MPa	23200 psi	2 mm/min; ISO 178
Flexural Modulus	5.80 GPa	841 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
	5.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.500 J/cm <sup>2</sup> @Temperature 23.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature 23.0 - 80.0 $^{\circ}\text{C}$	@Temperature 73.4 - 176 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	100 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
	@Temperature 23.0 - 80.0 $^{\circ}\text{C}$	@Temperature 73.4 - 176 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	230 $^{\circ}\text{C}$	446 $^{\circ}\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	230 $^{\circ}\text{C}$	446 $^{\circ}\text{F}$	Rate B/50; ISO 306
	235 $^{\circ}\text{C}$	455 $^{\circ}\text{F}$	Rate B/120; ISO 306

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