

## SABIC Innovative Plastics Valox® EH7025AG PBT+PET

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

### Material Notes:

Valox EH7025AG is a mineral filled PBT/PET that offers good surface appearance, good flow and good heat performance. EH7025AG was developed for automotive bezel application.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Valox-EH7025AG-PBTPET.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-EH7025AG-PBTPET.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0300 %	0.0300 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.10 %	0.10 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.0090 cm/cm @Thickness 3.20 mm	0.0080 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	40 g/10 min @Load 2.16 kg, Temperature 265 Â°C	40 g/10 min @Load 4.76 lb, Temperature 509 Â°F	ASTM D1238
Melt Index of Compound	34 g/10 min @Load 2.16 kg, Temperature 265 Â°C	34 g/10 min @Load 4.76 lb, Temperature 509 Â°F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	5 mm/min; ISO 527
	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.35 GPa	776 ksi	1 mm/min; ISO 527
	5.50 GPa	798 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	92.0 MPa	13300 psi	2 mm/min; ISO 178
	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.10 GPa	740 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256
	0.300 J/cm	0.562 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	2.00 kJ/m <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	2.00 kJ/m <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.100 J/cm <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.6 µm/m-°C	25.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	49.9 µm/m-°C	27.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	62.0 µm/m-°C	34.4 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	175 °C	347 °F	Rate B/50; ASTM D1525
	175 °C	347 °F	Rate B/50; ISO 306
	177 °C	351 °F	Rate B/120; ISO 306

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