

SABIC Innovative Plastics Valox® IQ8280SF PBT+PET

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

Material Notes:

Valox iQ8280SF resin is an environmentally responsible, low carbon footprint, and sustainable resin. Valox iQ8280SF resin offer Super High Flow characteristics combined with high modulus and excellent surface aesthetics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-IQ8280SF-PBTPET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D792
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Moisture Absorption	0.140 %	0.140 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.070 %	0.070 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Thickness 3.20 mm	0.0030 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	43 g/10 min @Load 2.16 kg, Temperature 265 Â°C	43 g/10 min @Load 4.76 lb, Temperature 509 Â°F	ASTM D1238
Melt Index of Compound	35 g/10 min @Load 2.16 kg, Temperature 265 Â°C	35 g/10 min @Load 4.76 lb, Temperature 509 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
	120	120	ISO 2039-2
Tensile Strength at Break	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
	115 MPa	16700 psi	5 mm/min; ISO 527
Tensile Strength, Yield	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
	115 MPa	16700 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.7 %	1.7 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	15.0 GPa	2180 ksi	5 mm/min; ASTM D638
	15.0 GPa	2180 ksi	1 mm/min; ISO 527
Flexural Yield Strength	195 MPa	28300 psi	1.3 mm/min, 50 mm span; ASTM D790
	195 MPa	28300 psi	2 mm/min; ISO 178
Flexural Modulus	12.1 GPa	1750 ksi	1.3 mm/min, 50 mm span; ASTM D790
	12.2 GPa	1770 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	0.780 J/cm	1.46 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Unnotched	7.00 J/cm	13.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 Âµm/m-Â°C	9.44 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	17.0 Âµm/m-Â°C	9.44 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	69.0 Âµm/m-Â°C	38.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	69.0 Âµm/m-Â°C	38.3 Âµin/in-Â°F	ISO 11359-2

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	424 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	197 Â°C @Thickness 3.20 mm	387 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	194 Â°C	381 Â°F	Rate B/120; ISO 306
	195 Â°C	383 Â°F	Rate B/50; ASTM D1525
	195 Â°C	383 Â°F	Rate B/50; ISO 306

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