

SABIC Innovative Plastics Xenoy[®] IQ1103 PBT+PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Xenoy iQ*1103 resin - Environmentally responsible and sustainable low carbon footprint resin. Xenoy iQ1103 is an unreinforced, impact modified alloy of PC (polycarbonate) + Valox iQ* PBT (polybutylene terephthalate) resin with excellent low temperature impact and chemical resistance. Range gray, black and colors except bright whites. Post-consumer usage: Each 1kg of Xenoy iQ1103 resin is made from approximately 0.33 kg of post-consumer content.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-IQ1103-PBTPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm @Thickness 3.20 mm	0.0080 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 250 [°] C	13 g/10 min @Load 11.0 lb, Temperature 482 [°] F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 5.00 kg, Temperature 250 [°] C	12 g/10 min @Load 11.0 lb, Temperature 482 [°] F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
	47.0 MPa	6820 psi	50 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
	49.0 MPa	7110 psi	50 mm/min; ISO 527
Elongation at Break	140 %	140 %	Type I, 50 mm/min; ASTM D638
	150 %	150 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.93 GPa	280 ksi	1 mm/min; ISO 527
	2.05 GPa	297 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
	74.0 MPa	10700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.92 GPa	278 ksi	2 mm/min; ISO 178
	2.00 GPa	290 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.50 J/cm	12.2 ft-lb/in	ASTM D256
	6.00 J/cm	11.2 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	55.0 kJ/m ²	26.2 ft-lb/in ²	80*10*4; ISO 180/1A
	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	5.50 J/cm ²	26.2 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	50.0 J	36.9 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -30.0 - 80.0 Å°C	@Temperature -22.0 - 176 Å°F	
CTE, linear, Transverse to Flow	95.0 Åµm/m-Å°C	52.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	95.0 Åµm/m-Å°C	52.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -30.0 - 80.0 Å°C	@Temperature -22.0 - 176 Å°F	
	99.0 Å°C	210 Å°F	

Thermal Properties <small>Deflection Temperature at 0.46 MPa (0.07 psi)</small>	Metric <small>@ Thickness 3.20 mm</small>	English <small>@ Thickness 0.126 in</small>	Comments <small>unannealed; ASTM D648</small>
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Â°C	169 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	75.0 Â°C <small>@Thickness 3.20 mm</small>	167 Â°F <small>@Thickness 0.126 in</small>	unannealed; ASTM D648
Vicat Softening Point	115 Â°C	239 Â°F	Rate B/50; ISO 306
	117 Â°C	243 Â°F	Rate B/120; ISO 306
	117 Â°C	243 Â°F	Rate B/50; ASTM D1525

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