SABIC Innovative Plastics XenoyÂ® IQ4840 PBT+PC (Asia Pacific)

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

Material Notes:

Xenoy iQ4840 (PBT+PC) resin is an environmental responsible, sustainable, and low carbon footprint resin. It is a 10% mineral filled resin with high modulus and ductile (HMD) characteristics. Xenoy iQ4840 offers a good balance of impact and ductility, excellent pull strength, good fatigue, provides Class A surface which is paintable, and excellent processibilty. It is currently used in painted automotive doorhandles.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-IQ4840-PBTPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/inÂ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.28 %	0.28 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.0 g/10 min @Load 5.00 kg, Temperature 250 Â°C	7.0 g/10 min @Load 11.0 lb, Temperature 482 Â°F	ASTM D1238
Melt Index of Compound	13 g/10 min @Load 5.00 kg, Temperature 265 Â°C	13 g/10 min @Load 11.0 lb, Temperature 509 Â°F	MVR [cm^3/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	5 mm/min; ISO 527
	60.0 MPa	8700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	5 mm/min; ISO 527
	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	120 %	120 %	5 mm/min; ISO 527
	130 %	130 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.8 %	3.8 %	5 mm/min; ISO 527
	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	3.80 GPa	551 ksi	1 mm/min; ISO 527
	4.00 GPa	580 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	96.0 MPa	13900 psi	2 mm/min; ISO 178
	104 MPa	15100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	2 mm/min; ISO 178
	3.50 GPa	508 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	0.900 J/cm @Temperature -30.0 Â°C	1.69 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	80*10*4; ISO 180/1A
	8.00 kJ/mÂ² @Temperature -30.0 Â°C	3.81 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.30 J/cmÂ²	10.9 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	65.0 J @Temperature 23.0 Â°C	47.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	46.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	46.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	35.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	63.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	35.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa	94.0 Â°C	201 Â°F	

Thermal Properties	Metric	English	Comments
(264 psi)			Flatw 80*10*4 sp=64mm; ISO 75/Af
	98.0 Â°C @Thickness 3.20 mm	208 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	127 Â°C	261 Â°F	Rate B/50; ASTM D1525
	128 Â°C	262 Â°F	Rate B/50; ISO 306
	128 Â°C	262 Â°F	Rate B/120; ISO 306

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China