

SABIC Innovative Plastics XYLEX X8210 PC+POLYESTER

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

PC+POLYESTER alloy. Unreinforced, transparent, impact modified for low temperature ductility

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X8210-PCPOLYESTER.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.37 %	0.37 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 265 ^o C	10 g/10 min @Load 4.76 lb, Temperature 509 ^o F	ASTM D1238
	14 g/10 min @Load 1.20 kg, Temperature 300 ^o C	14 g/10 min @Load 2.65 lb, Temperature 572 ^o F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 2.16 kg, Temperature 265 ^o C	10 g/10 min @Load 4.76 lb, Temperature 509 ^o F	MVR [cm ³ /10 min]; ISO 1133
	13 g/10 min @Load 1.20 kg, Temperature 300 ^o C	13 g/10 min @Load 2.65 lb, Temperature 572 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	Type I, 50 mm/min; ASTM D638
	45.0 MPa	6530 psi	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	>= 150 %	>= 150 %	50 mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.48 GPa	215 ksi	50 mm/min; ASTM D638
	1.50 GPa	218 ksi	1 mm/min; ISO 527
Flexural Strength	58.0 MPa	8410 psi	2 mm/min; ISO 178
Flexural Yield Strength	65.0 MPa	9430 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.60 GPa	232 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.60 GPa	232 ksi	2 mm/min; ISO 178
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256
	2.00 J/cm	3.75 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.40 J/cm	12.0 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A
	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -10.0 °C	@Temperature 14.0 °F	
Charpy Impact, Notched	7.10 J/cm ²	33.8 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	81.0 J	59.7 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 Åµm/m-Å°C	46.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	40.0 Å°C Metric	104 Å°F English	Comments
	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	89.0 Åµm/m-Å°C	49.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	79.0 Å°C	174 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Å°C	178 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	82.0 Å°C	180 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	75.0 Å°C	167 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	92.0 Å°C	198 Å°F	Rate B/50; ISO 306
	97.0 Å°C	207 Å°F	Rate B/120; ISO 306
	97.0 Å°C	207 Å°F	Rate B/50; ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
	@Thickness 2.54 mm	@Thickness 0.100 in	
Transmission, Visible	85 %	85 %	2.54 mm; ASTM D1003

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