

SABIC Innovative Plastics Xenoy® XLG2400 PC+PET

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Low Gloss Xenoy, providing inherent low gloss on almost every type of tool surfaces. This grade has excellent low temperature impact, high heat resistant and is UV stabilized. Many colors available. Pls refer to the low gloss processing guidelines for optimal low gloss.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-XLG2400-PCPET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.080 %	0.080 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	17.5 g/10 min @Load 5.00 kg, Temperature 266 °C	17.5 g/10 min @Load 11.0 lb, Temperature 511 °F	ASTM D1238
Melt Index of Compound	17 g/10 min @Load 5.00 kg, Temperature 265 °C	17 g/10 min @Load 11.0 lb, Temperature 509 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 50 mm/min; ASTM D638
	47.0 MPa	6820 psi	50 mm/min; ISO 527
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
Elongation at Break	103 %	103 %	Type I, 50 mm/min; ASTM D638
	122.3 %	122.3 %	50 mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	50 mm/min; ISO 527
	5.1 %	5.1 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.73 GPa	251 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric 1.94 GPa	English 280 ksi	Comments 1 mm/min; ISO 527
Flexural Yield Strength	67.0 MPa	9720 psi	1.3 mm/min, 50 mm span; ASTM D790
	68.0 MPa	9860 psi	2 mm/min; ISO 178
Flexural Modulus	1.77 GPa	257 ksi	2 mm/min; ISO 178
	1.85 GPa	268 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	5.78 J/cm	10.8 ft-lb/in	ASTM D256
	5.13 J/cm	9.61 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	47.0 kJ/mÂ²	22.4 ft-lb/inÂ²	80*10*4; ISO 180/1A
	40.0 kJ/mÂ²	19.0 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	5.20 J/cmÂ²	24.7 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	40.0 J	29.5 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.6 Âµm/m-Â°C	42.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	76.6 Âµm/m-Â°C	42.6 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	97.9 Âµm/m-Â°C	54.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	97.9 Âµm/m-Â°C	54.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	102 Â°C	216 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D648 Comments
Vicat Softening Point	128 Â°C	262 Â°F	Rate B/120; ISO 306
	129 Â°C	264 Â°F	Rate B/50; ASTM D1525
	129 Â°C	264 Â°F	Rate B/50; ISO 306

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