

SABIC Innovative Plastics Xenoy® CL402 PBT+PC (Europe-Africa-Middle East)

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

Material Notes:

XENYO CL402 is a high viscosity, unfilled, elastomer modified PC/PBT blend for extrusion/blowmolding applications. ISO1043-label: PC+PBT-I. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-CL402-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 ^o C	0.50 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	on tensile bar; SABIC Method
	0.0090 - 0.012 cm/cm @Thickness 3.20 mm	0.0090 - 0.012 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 250 ^o C	6.0 g/10 min @Load 11.0 lb, Temperature 482 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	6.0 g/10 min @Load 5.00 kg, Temperature 250 ^o C	6.0 g/10 min @Load 11.0 lb, Temperature 482 ^o F	ASTM D 1238
	7.0 g/10 min @Load 5.00 kg, Temperature 250 ^o C	7.0 g/10 min @Load 11.0 lb, Temperature 482 ^o F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	85.0 MPa	12300 psi	ISO 2039-1
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 50 mm/min; ASTM D 638
	41.0 MPa	5950 psi	50 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D 638

Mechanical Properties	Metric Pa	English	Comments ; ISO 527
Elongation at Break	50 %	50 %	Type I, 50 mm/min; ASTM D 638
	50 %	50 %	50 mm/min; ISO 527
Elongation at Yield	4.5 %	4.5 %	Type I, 50 mm/min; ASTM D 638
	4.5 %	4.5 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	50 mm/min; ASTM D 638
	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
	70.0 MPa	10200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.95 GPa	283 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.95 GPa	283 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.50 J/cm	6.56 ft-lb/in	ASTM D 256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.75 J/cm	8.90 ft-lb/in	ASTM D 256
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	5.75 J/cm	10.8 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/2C
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	50.0 J	36.9 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	40	40	CS-17; SABIC Method
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 Åµm/m-Å°C	58.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Å°C	@Temperature 73.4 - 176 Å°F	
CTE, linear, Transverse to Flow	105 Åµm/m-Å°C	58.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-2

Thermal Properties	Metric @Temperature 23.0 - 30.0 Â°C	English @Temperature 73.4 - 119 Â°F	Comments
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	85.0 Â°C @Thickness 3.20 mm	185 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	123 Â°C	253 Â°F	Rate B/50; ASTM D 1525
	123 Â°C	253 Â°F	Rate B/50; ISO 306
	125 Â°C	257 Â°F	Rate B/120; ISO 306
	155 Â°C	311 Â°F	Rate A/50; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	3.3 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	IEC 60250
	3.3 @Frequency 50.0 - 60.0 Hz	3.3 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	17.0 kV/mm @Thickness 3.20 mm	432 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
	18.0 kV/mm @Thickness 1.60 mm	457 kV/in @Thickness 0.0630 in	in oil; IEC 60243-1
Dissipation Factor	0.0020 @Frequency 50.0 - 60.0 Hz	0.0020 @Frequency 50.0 - 60.0 Hz	IEC 60250
	0.020 @Frequency 1.00e+6	0.020 @Frequency 1.00e+6	IEC 60250

Electrical Properties	Hz Metric	Hz English	Comments
Descriptive Properties		Value	Comments
Ball Pressure Test, 75Â°C +/- 2Â°C		PASSES	IEC 60695-10-2

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