

SABIC Innovative Plastics Xenoy® CL402U PBT+PC (Europe-Africa-Middle East)

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

Material Notes:

XENOY CL402U has been specially developed for extrusion blowmoulding applications, where higher melt strength is desired. XENOY CL402U is a high impact material combined with good UV resistance performance. This grade is a CL402 with improved UV-performance. 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-CL402U-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 [°] C	0.50 % @Temperature 73.4 [°] F	ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	on tensile bar; SABIC Method
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 250 [°] C	6.0 g/10 min @Load 11.0 lb, Temperature 482 [°] F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	7.0 g/10 min @Load 5.00 kg, Temperature 250 [°] C	7.0 g/10 min @Load 11.0 lb, Temperature 482 [°] F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	85.0 MPa	12300 psi	ISO 2039-1
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Yield Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
	39.0 kJ/m ²	18.6 ft-lb/in ²	

Izod Impact, Notched (ISO) Mechanical Properties	Metric @Temperature -40.0 °C	English @Temperature -40.0 °F	80*10*4; ISO 180/1A Comments
	45.0 kJ/mÂ²	21.4 ft-lb/inÂ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	80*10*4; ISO 180/1A
	47.0 kJ/mÂ²	22.4 ft-lb/inÂ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	80*10*4; ISO 180/1A
	53.0 kJ/mÂ²	25.2 ft-lb/inÂ²	
	@Temperature 23.0 °C	@Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 Â°F	80*10*4; ISO 180/1U
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	
	@Temperature 23.0 °C	@Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	
	@Temperature 23.0 °C	@Temperature 73.4 Â°F	ISO 179/2C
Taber Abrasion, mg/1000 Cycles	40	40	
	@Load 1.00 kg	@Load 2.20 lb	CS-17; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	105 Âµm/m-Â°C	58.3 Âµin/in-Â°F	
	@Temperature 23.0 -	@Temperature 73.4 -	ISO 11359-2

Thermal Properties	80.0 Â°C Metric	176 Â°F English	Comments
CTE, linear, Transverse to Flow	105 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	58.3 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
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)	87.0 Â°C	189 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	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 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250

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

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