SABIC Innovative Plastics XenoyÂ® CL500U 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 CL500U is a semi-crystalline blend, developed for exterior automotive parts (except bumper shells) and non automotive parts, requiring good impact, excellent chemical resistance and UV stability.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-CL500U-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/inÂ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 Â°C	0.50 % @Temperature 73.4 Â°F	ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	on tensile bar; SABIC Method
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 250 Â°C	14 g/10 min @Load 11.0 lb, Temperature 482 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	85.0 MPa	12300 psi	ISO 2039-1
Tensile Strength at Break	35.0 MPa	5080 psi	50 mm/min; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527
Elongation at Break	80 %	80 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Yield Strength	60.0 MPa	8700 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	25.0 kJ/mÂ² @Temperature -30.0 Â°C	11.9 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
	30.0 kJ/mÂ² @Temperature -20.0 Â°C	14.3 ft-lb/inÂ² @Temperature -4.00 Â°F	80*10*4; ISO 180/1A
	60.0 kJ/mÂ² @Temperature 0.000 Â°C	28.6 ft-lb/inÂ² @Temperature 32.0 Â°F	80*10*4; ISO 180/1A
	65.0 kJ/mÂ² @Temperature 23.0 Â°C	30.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
	NB @Temperature -30.0 Â°C	NB @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	NB @Temperature -30.0 Â°C	NB @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	1.20 J/cmÂ² @Temperature -30.0 Â°C	5.71 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179/2C
	2.10 J/cmÂ² @Temperature -30.0 Â°C	9.99 ft-lb/inÂ² @Temperature -22.0 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	4.00 J/cmÂ² @Temperature 23.0 Â°C	19.0 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/2C
	6.50 J/cmÂ² @Temperature 23.0 Â°C	30.9 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Taber Abrasion, mg/1000 Cycles	30 @Load 1.00 kg	30 @Load 2.20 lb	CS-17; SABIC Method

Thermal Properties	Metric	English	Comments
	130 Âµm/m-Â°C	72.2 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	130 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	72.2 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	85.0 Â°C	185 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	58.0 Â°C	136 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	114 Â°C	237 Â°F	Rate B/50; ISO 306
	116 Â°C	241 Â°F	Rate B/120; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94 by SABIC-IP
Flame Spread	52.0 mm/min @Thickness 1.00 mm	2.05 in/min @Thickness 0.0394 in	FMVSS 302

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	3.1 @Frequency 1.00e+6 Hz	3.1 @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
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, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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