

SABIC Innovative Plastics Xenoy® CL101D 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 CL101D is an impact modified PBT+PC injection moulding resin with excellent low temperature impact performance. Applications: automotive exterior components such as bumper systems. 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-CL101D-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 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 - 0.011 cm/cm	0.0070 - 0.011 in/in	on tensile bar; SABIC Method
Linear Mold Shrinkage, Transverse	0.0070 - 0.011 cm/cm	0.0070 - 0.011 in/in	on tensile bar; SABIC Method
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 250 °C	15 g/10 min @Load 11.0 lb, Temperature 482 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	84.0 MPa	12200 psi	ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Break	130 %	130 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	45.0 kJ/m ² @Temperature -30.0 °C	21.4 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	50.0 kJ/m ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	@Temperature 23.0 °C	@Temperature 73.4 °F	80*10*4, ISO 180/1U
	NB	NB	80*10*4; ISO 180/1U
Charpy Impact Unnotched	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	4.00 J/cm ²	19.0 ft-lb/in ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Taber Abrasion, mg/1000 Cycles	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	
Taber Abrasion, mg/1000 Cycles	35	35	CS-17; SABIC Method
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	103 µm/m-°C	57.2 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	115 µm/m-°C	63.9 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	115 °C	239 °F	Rate B/50; ISO 306
	120 °C	248 °F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	3.3	3.3	
Dielectric Strength	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
	17.0 kV/mm	432 kV/in	in oil; IEC 60243-1
Dissipation Factor	@Thickness 3.20 mm	@Thickness 0.126 in	
	18.0 kV/mm	457 kV/in	short time; IEC 60243-1
Dissipation Factor	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0020	0.0020	IEC 60250
Dissipation Factor	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
	0.020	0.020	
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250

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

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