

LIHAN® CT9000

Polycarbonate + PBT

Nanjing Lihan Chemical Co., Ltd.

Message:

Fire resistance PC/PBT alloy

Pamphleti The P0lycarbonate(PC) material has good impact strength, surface glossiness and self-extinguishing, but its fluidity and anti—environmental stress are very poor. The Polyethylene terephthalate (PBT) has good processability and electrical property. The PC/PBT alloy has both advantages rolled into one. High fire resistant PC/PBT alloy has reached UL-94 V-0(O.8mm) and 5VA(2.5mm), and it satisfies the European Commission ROHS. The material has been recognized by multinational electronics operation and listed as one of the company global purchase items. The material can be used to electronic parts, apparatus shell.

General Information			
Features	Flame Retardant		
	Good Electrical Properties		
	Good Impact Resistance		
	Good Processability		
	High Gloss		
	Self Extinguishing		
Uses	Electrical Parts		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Molding Shrinkage	0.70 to 0.90	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	50.0	MPa	ISO 527-2
Tensile Strain (Break)	25	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	12	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	78.0	°C	ISO 75-2/A
Melting Temperature	220	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		
2.50 mm	5VA		
Extrusion	Nominal Value	Unit	
Melt Temperature	240 to 265	°C	

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