

LONoy Ionoy 1300

Polycarbonate + PBT

Kingfa

Message:

LONoy Ionoy 1300 is a polycarbonate polybutene terephthalate (PC PBT) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of LONoy Ionoy 1300 are:

flame retardant/rated flame

beautiful

good weather resistance

Typical application areas include:

Automotive Industry

engineering/industrial accessories

business/office supplies

General Information			
Features	Good weather resistance		
	Excellent appearance		
Uses	Industrial components		
	Car anti-collision bar		
	Car interior equipment		
	Car exterior decoration		
	Business equipment		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.80 - 1.0	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	55.0	MPa	ASTM D638
Tensile Elongation ² (Break)	90	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	700	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	107	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	98.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	28	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 85.0	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	200 - 220	°C	
Middle Temperature	200 - 225	°C	
Front Temperature	210 - 230	°C	
Processing (Melt) Temp	200 - 230	°C	
Mold Temperature	60.0 - 80.0	°C	
Back Pressure	0.00 - 10.0	MPa	
Injection instructions			
Processing Temperature Limit: 250°C Injection Speed: 50 to 80%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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