

Kingfa LONoy 1600 PC/PBT Alloy

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

Material Notes:

Features:Excellent balance propertiesGood weather resistanceGood size stabilitySmooth surfaceUniform colorApplications:Injection moldingAutomobile bumperAutomobile interior/exterior trim partsBusiness machine cabinetLarge partsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-LONoy-1600-PCPBT-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	50mm/min; ASTM D638
Elongation at Break	>= 70 %	>= 70 %	50mm/min; ASTM D638
Flexural Strength	75.0 MPa	10900 psi	2mm/min; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	2mm/min; ASTM D790
Izod Impact, Notched	>= 1.00 J/cm	>= 1.87 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 Å°C	@Thickness 0.126 in, Temperature -40.0 Å°F	
	>= 6.00 J/cm	>= 11.2 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa	85.0 Å°C	185 Å°F	

(56 psi) Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C @Thickness 6.40 mm	140 Â°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Strength	30.0 kV/mm	762 kV/in	1.6mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 280 Â°C	<= 536 Â°F	
Rear Barrel Temperature	245 - 260 Â°C	473 - 500 Â°F	Start Point: 250Â°C
Middle Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	Start Point: 255Â°C
Front Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	Start Point: 260Â°C
Melt Temperature	245 - 270 Â°C	473 - 518 Â°F	Start Point: 260Â°C
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	Start Point: 80Â°C
Drying Temperature	120 Â°C @Time 14400 - 21600 sec	248 Â°F @Time 4.00 - 6.00 hour	Pre-dry
Back Pressure	0.300 - 0.700 MPa	43.5 - 102 psi	

Descriptive Properties	Value	Comments
Injection Speed	60-100%	

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