

Kingfa JH830T Flame Retardant PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Features:UL V-0 @ 2.4mmExcellent balance propertiesHigh stiffnessGood size stabilityGood surfaceTransparentApplications:Controller switchLamp-chimneyTelecommunicationHousehold appliance cabinetInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-JH830T-Flame-Retardant-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc @Temperature 23.0 Â°C	1.20 g/cc @Temperature 73.4 Â°F	ASTM D792
Water Absorption	0.12 % @Temperature 23.0 Â°C, Time 86400 sec	0.12 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm @Temperature 23.0 Â°C	0.0050 - 0.0070 in/in @Temperature 73.4 Â°F	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	118	118	ASTM D785
Tensile Strength at Break	62.0 MPa	8990 psi	50mm/min; ASTM D638
Elongation at Break	>= 60 %	>= 60 %	50mm/min; ASTM D638
Flexural Strength	85.0 MPa	12300 psi	2mm/min; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	2mm/min; ASTM D790
Izod Impact, Notched	6.00 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	11.2 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.20 mm, Temperature 23.0 Â°C	NB @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	123 - 127 Â°C @Thickness 2.00 mm	253 - 261 Â°F @Thickness 0.0787 in	IEC695-10-2

Thermal Properties	Metric	English	Comments
Thermal Deflection Temperature at 0.46 MPa (66 psi)	122 Å°C @Thickness 6.40 mm	270 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 Å°C @Thickness 6.40 mm	262 Å°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	V-0 @Thickness 2.40 mm	V-0 @Thickness 0.0945 in	
	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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	28.0 kV/mm	711 kV/in	1.6mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 300 Å°C	<= 572 Å°F	
Rear Barrel Temperature	240 - 270 Å°C	464 - 518 Å°F	Start Point: 260Å°C
Middle Barrel Temperature	260 - 280 Å°C	500 - 536 Å°F	Start Point: 265Å°C
Front Barrel Temperature	270 - 290 Å°C	518 - 554 Å°F	Start Point: 275Å°C
Melt Temperature	250 - 280 Å°C	482 - 536 Å°F	Start Point: 260Å°C
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	Start Point: 70Å°C
Drying Temperature	120 Å°C	248 Å°F	Pre-dry
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Back Pressure	0.700 - 1.00 MPa	102 - 145 psi	

Descriptive Properties	Value	Comments
Hot Wire Test (Å°C)	950	IEC695-2-12, 1.6mm
Injection Speed	60-90%	

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