

Kingfa JH820 Modified PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

Features:Excellent balance propertiesSuper high impact strengthHigh stiffnessGood size stabilityGood surface, high glossHigh

transparencyApplications:Injection moldingHousehold applianceBusiness machine cabinetTransparent platePackagingInformation

Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-JH820-Modified-PC.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	62.0 MPa	8990 psi	50mm/min; ASTM D638
Elongation at Break	100 %	100 %	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	7.00 J/cm	13.1 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 (66 psi)	135 Å°C	275 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	130 Å°C	266 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	
	@Thickness 3.20 mm	@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 Â°C	<= 572 Â°F	
Rear Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Start Point: 260Â°C
Middle Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	Start Point: 265Â°C
Front Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	Start Point: 275Â°C
Melt Temperature	250 - 280 Â°C	482 - 536 Â°F	Start Point: 260Â°C
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Start Point: 70Â°C
Drying Temperature	120 Â°C	248 Â°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
Injection Speed	60-90%	

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