

Kingfa JH950-402 Flame Retardant PC/ABS Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Features:UL V-0 @ 3.2mmExcellent balance propertiesHigh heat resistanceGood normal/low temperature impact strengthGood surfaceApplications:Small household appliance cabinetControllerSocketShell of ammeterInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-JH950-402-Flame-Retardant-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Water Absorption	0.15 %	0.15 %	ASTM D570
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	50mm/min; ASTM D638
Elongation at Break	>= 30 %	>= 30 %	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	>= 2.50 J/cm	>= 4.68 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -30.0 Å°C	@Thickness 0.126 in, Temperature -22.0 Å°F	
	>= 3.40 J/cm	>= 6.37 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
CTE, linear	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ASTM D696

Thermal Properties <small>Hot Ball Pressure Test</small>	118 - 122 Å°C Metric	244 - 252 Å°F English	Comments <small>IEC695-2-12-2</small>
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Deflection Temperature at 0.46 MPa (66 psi)	120 Å°C @Thickness 6.40 mm	248 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	105 Å°C @Thickness 6.40 mm	221 Å°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 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	28.0 kV/mm	711 kV/in	1.6mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 260 Å°C	<= 500 Å°F	
Rear Barrel Temperature	210 - 230 Å°C	410 - 446 Å°F	Start Point: 215Å°C
Middle Barrel Temperature	220 - 230 Å°C	428 - 446 Å°F	Start Point: 225Å°C
Front Barrel Temperature	220 - 240 Å°C	428 - 464 Å°F	Start Point: 235Å°C
Melt Temperature	220 - 240 Å°C	428 - 464 Å°F	Start Point: 230Å°C
Mold Temperature	60.0 - 100 Å°C	140 - 212 Å°F	Start Point: 70Å°C
Drying Temperature	90.0 - 100 Å°C @Time 10800 - 21600 sec	194 - 212 Å°F @Time 3.00 - 6.00 hour	Pre-dry
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

Descriptive Properties	Value	Comments
Hot Wire Test (Å°C)	850	IEC695-2-12, 1.6mm
Injection Speed	60-90%	

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