

Kingfa JH950-502 Low-temperature Resistant & 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 propertiesGood low temperature resistanceGood normal/low temperature impact strengthGood surfaceApplications:ControllerPlugSocketShell of ammeterInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-JH950-502-Low-temperature-Resistant-Flame-Retardant-PCABS-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 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	115	115	ASTM D785
Tensile Strength at Break	>= 50.0 MPa	>= 7250 psi	50mm/min; ASTM D638
Elongation at Break	>= 40 %	>= 40 %	50mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	2mm/min; ASTM D790
Flexural Modulus	2.35 GPa	341 ksi	2mm/min; ASTM D790
Izod Impact, Notched	3.80 J/cm	7.12 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -40.0 Å°C	@Thickness 0.126 in, Temperature -40.0 Å°F	
	4.80 J/cm	8.99 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)	123 Å°C	253 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	Metric	English	Comments
Thermal Distortion Temperature at 1.8 MPa (264 psi)	110 Å°C @Thickness 6.40 mm	220 Å°F @Thickness 0.252 in	ASTM D2648
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	<= 265 Å°C	<= 509 Å°F	
Rear Barrel Temperature	210 - 240 Å°C	410 - 464 Å°F	Start Point: 215Å°C
Middle Barrel Temperature	220 - 240 Å°C	428 - 464 Å°F	Start Point: 225Å°C
Front Barrel Temperature	220 - 250 Å°C	428 - 482 Å°F	Start Point: 235Å°C
Melt Temperature	220 - 255 Å°C	428 - 491 Å°F	Start Point: 230Å°C
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	Start Point: 70Å°C
Drying Temperature	100 - 110 Å°C @Time 14400 - 21600 sec	212 - 230 Å°F @Time 4.00 - 6.00 hour	Pre-dry
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

Descriptive Properties	Value	Comments
Injection Speed	60-100%	

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