

## Kingfa HC-110 Modified ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded

### Material Notes:

Features:UL94 HB @ 1.6-3.0mmElectro-platingApplications:Electro-plating partsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-HC-110-Modified-ABS.php](http://www.lookpolymers.com/polymer_Kingfa-HC-110-Modified-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Melt Flow	1.8 g/10 min	1.8 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Å°C	@Load 11.0 lb, Temperature 392 Å°F	
	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 Å°C	@Load 22.0 lb, Temperature 428 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength at Break	44.0 MPa	6380 psi	50mm/min; ASTM D638
Elongation at Break	25 %	25 %	50mm/min; ASTM D638
Flexural Strength	66.0 MPa	9570 psi	2mm/min; ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	2mm/min; ASTM D790
Izod Impact, Notched	2.97 J/cm	5.56 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Å°C	@Thickness 0.252 in, Temperature 73.4 Å°F	
	3.25 J/cm	6.09 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	96.0 Å°C	205 Å°F	

Thermal Properties	Metric	English	ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Å°C @Thickness 6.40 mm	189 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	95.0 Å°C @Load 5.00 kg	203 Å°F @Load 11.0 lb	50Å°C/min; ASTM D1525
	103 Å°C @Load 1.00 kg	217 Å°F @Load 2.20 lb	120Å°C/min; ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	23.0 kV/mm	584 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 250 Å°C	<= 482 Å°F	
Rear Barrel Temperature	182 - 205 Å°C	360 - 401 Å°F	Start Point: 190Å°C
Middle Barrel Temperature	205 - 230 Å°C	401 - 446 Å°F	Start Point: 215Å°C
Front Barrel Temperature	215 - 240 Å°C	419 - 464 Å°F	Start Point: 225Å°C
Melt Temperature	220 - 245 Å°C	428 - 473 Å°F	Start Point: 230Å°C
Mold Temperature	30.0 - 60.0 Å°C	86.0 - 140 Å°F	Start Point: 50Å°C
Drying Temperature	80.0 - 90.0 Å°C @Time 7200 - 14400 sec	176 - 194 Å°F @Time 2.00 - 4.00 hour	Pre-dry
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

Descriptive Properties	Value	Comments
Injection Speed	Slow to Moderate	

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