

## Kingfa HP-126 Modified ABS

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

### Material Notes:

Features:UL94 HB @ 1.6-3.0mmHigh impact resistanceHigh flowApplications:LCD cabinetLarge thin-wall partsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-HP-126-Modified-ABS.php](http://www.lookpolymers.com/polymer_Kingfa-HP-126-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	3.5 g/10 min	3.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Å°C	@Load 11.0 lb, Temperature 392 Å°F	
	40 g/10 min	40 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	104	104	ASTM D785
Tensile Strength at Break	46.0 MPa	6670 psi	50mm/min; ASTM D638
Elongation at Break	20 %	20 %	50mm/min; ASTM D638
Flexural Strength	66.0 MPa	9570 psi	2mm/min; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	2mm/min; ASTM D790
Izod Impact, Notched	2.32 J/cm	4.35 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Å°C	@Thickness 0.252 in, Temperature 73.4 Å°F	
	2.61 J/cm	4.89 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
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Thermal Properties	Metric	English	Comments
Thermal Deflection Temperature at 0.46 MPa (66 psi)	83.0 Â°C @Thickness 6.40 mm	181 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	83.0 Â°C @Thickness 6.40 mm	181 Â°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	92.0 Â°C @Load 5.00 kg	198 Â°F @Load 11.0 lb	50Â°C/min; ASTM D1525
	101 Â°C @Load 1.00 kg	214 Â°F @Load 2.20 lb	120Â°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 Â°C	<= 482 Â°F	
Rear Barrel Temperature	182 - 205 Â°C	360 - 401 Â°F	Start Point: 190Â°C
Middle Barrel Temperature	205 - 230 Â°C	401 - 446 Â°F	Start Point: 215Â°C
Front Barrel Temperature	215 - 240 Â°C	419 - 464 Â°F	Start Point: 225Â°C
Melt Temperature	220 - 245 Â°C	428 - 473 Â°F	Start Point: 230Â°C
Mold Temperature	30.0 - 60.0 Â°C	86.0 - 140 Â°F	Start Point: 50Â°C
Drying Temperature	80.0 - 90.0 Â°C @Time 7200 - 14400 sec	176 - 194 Â°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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