

## Kingfa HR-527B Modified ABS

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

### Material Notes:

Features:UL94 HB @ 1.5-3.2mmExcellent heat resistanceApplications:Automobile partsAutomobile audioDashboard, interior trimAutomobile lamp, mirrorInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kingfa-HR-527B-Modified-ABS.php](http://www.lookpolymers.com/polymer_Kingfa-HR-527B-Modified-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc @Temperature 23.0 Â°C	1.06 g/cc @Temperature 73.4 Â°F	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm @Temperature 23.0 Â°C	0.0030 - 0.0060 in/in @Temperature 73.4 Â°F	ASTM D955
Melt Flow	6.5 g/10 min @Load 10.0 kg, Temperature 220 Â°C	6.5 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	48.0 MPa	6960 psi	50mm/min; ASTM D638
Elongation at Break	20 %	20 %	50mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	2mm/min; ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	2mm/min; ASTM D790
Izod Impact, Notched	1.43 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	2.68 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	1.69 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	3.17 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C @Thickness 6.40 mm	230 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (204 psi)	101 Â°C	214 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	110 Â°C	230 Â°F	50Â°C/min; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
	118 Â°C	244 Â°F	120Â°C/min; ASTM D1525
	@Load 1.00 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 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	<= 270 Â°C	<= 518 Â°F	
Rear Barrel Temperature	190 - 220 Â°C	374 - 428 Â°F	Start Point: 210Â°C
Middle Barrel Temperature	210 - 240 Â°C	410 - 464 Â°F	Start Point: 225Â°C
Front Barrel Temperature	220 - 245 Â°C	428 - 473 Â°F	Start Point: 235Â°C
Melt Temperature	220 - 250 Â°C	428 - 482 Â°F	Start Point: 240Â°C
Mold Temperature	30.0 - 80.0 Â°C	86.0 - 176 Â°F	Start Point: 50Â°C
Drying Temperature	90.0 - 100 Â°C	194 - 212 Â°F	Pre-dry
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

Descriptive Properties	Value	Comments
Injection Speed	Slow to Moderate	

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