

Kingfa HR-527A Modified ABS

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

Material Notes:

Features:UL94 HB @ 1.5-3.2mmHeat 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-527A-Modified-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc @Temperature 23.0 Â°C	1.05 g/cc @Temperature 73.4 Â°F	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm @Temperature 23.0 Â°C	0.0040 - 0.0060 in/in @Temperature 73.4 Â°F	ASTM D955
Melt Flow	12 g/10 min @Load 10.0 kg, Temperature 220 Â°C	12 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	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	70.0 MPa	10200 psi	2mm/min; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	2mm/min; ASTM D790
Izod Impact, Notched	1.64 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	3.07 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	1.96 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	3.67 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)	102 Â°C @Thickness 6.40 mm	216 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (204 psi)	94.0 Â°C	201 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	103 Â°C	217 Â°F	50Â°C/min; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
	112 Â°C	234 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	<= 250 Â°C	<= 482 Â°F	
Rear Barrel Temperature	180 - 205 Â°C	356 - 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	176 - 194 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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