

Kingfa FW-620 Flame Retardant ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Features:UL 94 V-0 @ 1.5-3.0mmWeather resistanceHeat resistanceGood surfaceApplications:Injection moldingOA deviceChargerTransformerInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-FW-620-Flame-Retardant-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
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	
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	44.0 MPa	6380 psi	50mm/min; ASTM D638
Elongation at Break	10 %	10 %	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	1.42 J/cm	2.66 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Å°C	@Thickness 0.252 in, Temperature 73.4 Å°F	
	1.73 J/cm	3.24 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
Deflection Temperature at 0.46 MPa (66 psi)	80.0 Â°C @Thickness 6.40 mm	176 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C @Thickness 6.40 mm	176 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
	103 Â°C @Load 1.00 kg	217 Â°F @Load 2.20 lb	120Â°C/min; ASTM D1525
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 245 Â°C	<= 473 Â°F	
Rear Barrel Temperature	180 - 210 Â°C	356 - 410 Â°F	Start Point: 190Â°C
Middle Barrel Temperature	190 - 220 Â°C	374 - 428 Â°F	Start Point: 205Â°C
Front Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	Start Point: 215Â°C
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Start Point: 220Â°C
Mold Temperature	30.0 - 60.0 Â°C	86.0 - 140 Â°F	Start Point: 50Â°C
Drying Temperature	70.0 - 80.0 Â°C @Time 7200 - 14400 sec	158 - 176 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	
Weather Resistance (delta E)	ASTM D4459; 300hr	

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China