

Kingfa FW-650 Flame Retardant ABS

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

Material Notes:

Features:Weather resistanceSuper high impact resistanceApplications:Injection moldingSwitchSocketInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-FW-650-Flame-Retardant-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 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	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Å°C	@Load 11.0 lb, Temperature 392 Å°F	
	25 g/10 min	25 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	95	95	ASTM D785
Tensile Strength at Break	37.0 MPa	5370 psi	50mm/min; ASTM D638
Elongation at Break	20 %	20 %	50mm/min; ASTM D638
Flexural Strength	56.0 MPa	8120 psi	2mm/min; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	2mm/min; ASTM D790
Izod Impact, Notched	2.87 J/cm	5.38 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Å°C	@Thickness 0.252 in, Temperature 73.4 Å°F	
	3.11 J/cm	5.83 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)	87.0 Å°C @Thickness 6.40 mm	189 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Å°C @Thickness 6.40 mm	172 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	91.0 Å°C @Load 5.00 kg	196 Å°F @Load 11.0 lb	50Å°C/min; ASTM D1525
	101 Å°C @Load 1.00 kg	214 Å°F @Load 2.20 lb	120Å°C/min; ASTM D1525
Flammability Test	<= 750	<= 750	[Å°C]; IEC60695

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	23.0 kV/mm	584 kV/in	ASTM D149

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

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