

Kingfa FRABS-518 Flame Retardant ABS

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

Material Notes:

Features:UL 94 V-0 @ 1.6-3.0mm, 5VB @ 2.0mmLow temperature impact resistanceApplications:Injection moldingPower tools accessoriesInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-FRABS-518-Flame-Retardant-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Melt Flow	2.5 g/10 min	2.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Â°C	@Load 11.0 lb, Temperature 392 Â°F	
	28 g/10 min	28 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 Â°C	@Load 22.0 lb, Temperature 428 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ASTM D785
Tensile Strength at Break	38.0 MPa	5510 psi	50mm/min; ASTM D638
Elongation at Break	20 %	20 %	50mm/min; ASTM D638
Flexural Strength	58.0 MPa	8410 psi	2mm/min; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	2mm/min; ASTM D790
Izod Impact, Notched	1.64 J/cm	3.07 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -30.0 Â°C	@Thickness 0.126 in, Temperature -22.0 Â°F	
	3.39 J/cm	6.35 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.0 Â°C @Thickness 6.40 mm	189 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.0 Â°C @Thickness 6.40 mm	171 Â°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	86.0 Â°C @Load 5.00 kg	187 Â°F @Load 11.0 lb	50Â°C/min; ASTM D1525
	95.0 Â°C @Load 1.00 kg	203 Â°F @Load 2.20 lb	120Â°C/min; ASTM D1525
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	5VB @Thickness 2.00 mm	5VB @Thickness 0.0787 in	

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	<= 230 Â°C	<= 446 Â°F	
Rear Barrel Temperature	160 - 180 Â°C	320 - 356 Â°F	Start Point: 170Â°C
Middle Barrel Temperature	170 - 190 Â°C	338 - 374 Â°F	Start Point: 180Â°C
Front Barrel Temperature	180 - 210 Â°C	356 - 410 Â°F	Start Point: 195Â°C
Melt Temperature	170 - 210 Â°C	338 - 410 Â°F	Start Point: 190Â°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
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Descriptive Properties	Value <i>to Moderate</i>	Comments
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