

Kingfa FRHIPS-100 Flame Retardant Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

Features:UL 94 V-0 @ 1.6mmLow smoking, low halogenExcellent balance properties, high strengthExcellent heat stabilityExcellent electrical propertiesApplications:Injection moldingGas moldingTV or audio housingElectrical appliance housingInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-FRHIPS-100-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc @Temperature 23.0 Â°C	1.18 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	8.0 g/10 min @Load 5.00 kg, Temperature 200 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.0 MPa	3340 psi	50mm/min; ASTM D638
Elongation at Break	40 %	40 %	50mm/min; ASTM D638
Flexural Strength	36.0 MPa	5220 psi	2mm/min; ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	2mm/min; ASTM D790
Izod Impact, Notched	0.940 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.76 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	73.0 Â°C @Thickness 6.40 mm	163 Â°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0	V-0	

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	<= 250 Â°C	<= 482 Â°F	
Rear Barrel Temperature	182 - 205 Â°C	360 - 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	70.0 Â°C @Time 7200 sec	158 Â°F @Time 2.00 hour	Pre-dry
Back Pressure	5.00 - 15.0 MPa	725 - 2180 psi	

Descriptive Properties	Value	Comments
Injection Speed	Slow to Moderate	

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