

Kingfa FRHIPS-980

High Impact Polystyrene

Kingfa

Message:

Kingfa FRHIPS-980 is a High Impact Polystyrene material. It is available in Asia Pacific or North America for injection molding. Primary attribute of Kingfa FRHIPS-980: Flame Rated.
Typical applications include:
Electrical/Electronic Applications
Housings

General Information			
UL YellowCard	E171666-471232		
Features	Good Electrical Properties		
Uses	Electrical/Electronic Applications		
	Housings		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	24.0	MPa	ASTM D638
Tensile Elongation ² (Break)	40	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	39.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	75.0	°C	ASTM D648
Ball Indentation Temperature ⁵	85.0	°C	IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	UL 94		
1.60 mm	V-0		
3.20 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	2.0	hr	
Rear Temperature	182 to 205	°C	

Middle Temperature	205 to 230	°C
Front Temperature	215 to 240	°C
Processing (Melt) Temp	220 to 245	°C
Mold Temperature	30.0 to 60.0	°C
Injection Rate	Slow-Moderate	
Back Pressure	5.00 to 15.0	MPa

NOTE

- | | |
|----|------------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 2.0 mm/min |
| 4. | 2.0 mm/min |
| 5. | 2 mm |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

