

# Kingfa FRHIPS-702

High Impact Polystyrene

Kingfa

Message:

Kingfa FRHIPS-702 is a High Impact Polystyrene material. It is available in Asia Pacific or North America.

Important attributes of Kingfa FRHIPS-702 are:

- Flame Rated
- Flame Retardant
- Halogen Free
- Impact Resistant
- Rigid

Typical applications include:

- Appliances
- Housings

General Information			
UL YellowCard	E171666-309188		
Features	Flame Retardant		
	Halogen Free		
	High Impact Resistance		
	High Rigidity		
Uses	Appliances		
	Electrical Housing		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (23°C, Injection Molded)	30.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 23°C, Injection Molded)	30	%	ASTM D638
Flexural Modulus <sup>3</sup> (23°C, Injection Molded)	2450	MPa	ASTM D790
Flexural Strength <sup>4</sup> (23°C, Injection Molded)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	74	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	84.0	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525 <sup>5</sup>
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		
5.	Rate B (120°C/h), Loading 1 (10 N)		

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#### 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

