

Kingfa FRHIPS-301

High Impact Polystyrene

Kingfa

Message:

Kingfa FRHIPS-301 is a High Impact Polystyrene material. It is available in Asia Pacific or North America.

Important attributes of Kingfa FRHIPS-301 are:

- Flame Rated
- Flame Retardant
- Impact Resistant
- Rigid
- Typical applications include:
- Appliances
- Housings

General Information			
UL YellowCard	E171666-312354		
Features	Flame Retardant		
	High Impact Resistance		
	High Rigidity		
Uses	Appliances		
	Electrical Housing		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.30 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, Injection Molded)	25.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, Injection Molded)	45	%	ASTM D638
Flexural Modulus ³ (23°C, Injection Molded)	2350	MPa	ASTM D790
Flexural Strength ⁴ (23°C, Injection Molded)	38.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	79.0	°C	ASTM D648

Vicat Softening Temperature	96.0	°C	ASTM D1525 ⁵
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			UL 94
1.60 mm	V-0		
3.00 mm	V-0		
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

