

Kingfa FRHIPS-113

High Impact Polystyrene

Kingfa

Message:

Kingfa FRHIPS-113 is a High Impact Polystyrene material. It is available in Asia Pacific or North America.

Important attributes of Kingfa FRHIPS-113 are:

Flame Rated

Flame Retardant

Impact Resistant

Typical applications include:

Housings

Appliances

Household Applications

General Information			
UL YellowCard	E171666-225775	E171666-225776	
Features	Flame Retardant		
	High Impact Resistance		
Uses	Appliances		
	Electrical Housing		
	Household Goods		
	Housings		
Forms	Pellets		
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)	6.0	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)	97		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (23°C, Injection Molded)	27.0	MPa	ASTM D638
Tensile Elongation ² (Break, 23°C, Injection Molded)	45	%	ASTM D638
Flexural Modulus ³ (23°C, Injection Molded)	2200	MPa	ASTM D790
Flexural Strength ⁴ (23°C, Injection Molded)	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	78.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°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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