

# Kingfa HIPS-5197

High Impact Polystyrene

Kingfa

Message:

Kingfa HIPS-5197 is a High Impact Polystyrene material. It is available in Asia Pacific or North America for injection molding.

Important attributes of Kingfa HIPS-5197 are:

Flame Rated

High Strength

Typical applications include:

Electrical/Electronic Applications

Housings

General Information			
UL YellowCard	E171666-304160		
Features	High Strength		
Uses	Electrical/Electronic Applications		
	Housings		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	24.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	30	%	ASTM D638
Flexural Modulus <sup>3</sup>	2150	MPa	ASTM D790
Flexural Strength <sup>4</sup>	38.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	90	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
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	HB		
3.20 mm	HB		
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 |

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#### Recommended distributors for this material

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