Kingfa FRHIPS-220

High Impact Polystyrene

Kingfa

Message:

Kingfa FRHIPS-220 is a High Impact Polystyrene material. It is available in Asia Pacific or North America for injection molding.
Important attributes of Kingfa FRHIPS-220 are:
Flame Rated
High Gloss
Typical applications include:
Appliances
Electrical/Electronic Applications
Housings

General Information			
UL YellowCard	E171666-225775	E171666-225776	
Features	Good Electrical Properties High Gloss		
Uses	Appliances Electrical/Electronic Applications Housings		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.15	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	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)	25.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	50	%	ASTM D638
Flexural Modulus [3]	2150	MPa	ASTM D790
Flexural Strength [4]	36.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm)	140	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	76.0	°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	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

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Recommended distributors for this material

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