

Kingfa H-12

Acrylonitrile Butadiene Styrene

Kingfa

Message:

Kingfa H-12 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa H-12 are:

- flame retardant/rated flame
- Good toughness
- Heat resistance

Typical application areas include:

- Automotive Industry
- Tools

General Information			
UL YellowCard	E171666-225717		
Features	Ultra high toughness		
	Heat resistance, medium		
Uses	Power/other tools		
	Car interior equipment		
	Car exterior decoration		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	2.0	g/10 min	ASTM D1238
220°C/10.0 kg	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.40 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	44.0	MPa	ASTM D638
Tensile Elongation ² (Break)	25	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	64.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	290	J/m	ASTM D256
23°C, 6.40 mm	260	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	97.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	88.0	°C	ASTM D648
Vicat Softening Temperature			
--	104	°C	ASTM D1525 ⁵
--	96.0	°C	ASTM D1525 ⁶
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	23	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	180 - 205	°C	
Middle Temperature	205 - 230	°C	
Front Temperature	215 - 240	°C	
Processing (Melt) Temp	220 - 245	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.00 - 0.0100	MPa	
Injection instructions			
Processing Temperature Limit: 250°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		
5.	标准 B (120°C/h), 压力1 (10N)		
6.	速率 A (50°C/h), 载荷2 (50N)		

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