

Kingfa FRABS-V0

Acrylonitrile Butadiene Styrene

Kingfa

Message:

Kingfa FRABS-V0 is an acrylonitrile butadiene styrene (ABS) material. This product is available in North America or Asia Pacific region. The processing method is extrusion or injection molding.

The main features of Kingfa FRABS-V0 are:

flame retardant/rated flame

Good toughness

The typical application areas of Kingfa FRABS-V0 are: electrical/electronic applications

General Information			
Features	Ultra high toughness		
Uses	Electrical/Electronic Applications		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.2	g/10 min	ASTM D1238
220°C/10.0 kg	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C)	0.40 - 0.60	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	40.0	MPa	ASTM D638
Tensile Elongation ² (Break)	15	%	ASTM D638
Flexural Modulus ³	2200	MPa	ASTM D790
Flexural Strength ⁴	58.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	180	J/m	ASTM D256
23°C, 6.40 mm	140	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	90.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	80.0	°C	ASTM D648
Vicat Softening Temperature			
--	102	°C	ASTM D1525 ⁵
--	93.0	°C	ASTM D1525 ⁶

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+ 14	ohms · cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		UL 94
3.00 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	180 - 210	°C	
Middle Temperature	190 - 220	°C	
Front Temperature	200 - 230	°C	
Processing (Melt) Temp	200 - 230	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.00 - 0.0100	MPa	
Injection instructions			
Processing Temperature Limit: 245°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)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

