

KumhoSunny ABS HFA700F

Acrylonitrile Butadiene Styrene

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HFA700F is super flow enviromental ABS resin. It has balance mechanical properties and heat resistance properties. HFA700F is mainly used in frame and base of LED, housing of dehumidifier, panel of air-conditioner t,etc.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	High Flow		
Uses	Housings		
	LEDs		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	120	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	44.0	MPa	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	55.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	74.0	°C	ASTM D648
Vicat Softening Temperature	84.0	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

1.60 mm	V-0	
2.10 mm	V-0	
3.20 mm	V-0	
Additional Information		Nominal Value
CSA File No.	LS 66457	
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	2.0 to 3.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	180 to 190	°C
Middle Temperature	190 to 200	°C
Front Temperature	195 to 205	°C
Nozzle Temperature	195 to 205	°C
Processing (Melt) Temp	200 to 210	°C
Mold Temperature	40.0 to 80.0	°C
Back Pressure	1.00 to 5.00	MPa
Screw Speed	30 to 60	rpm
NOTE		
1.	Rate B (120°C/h)	

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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

