

KumhoSunny ABS HFA700HT

Acrylonitrile Butadiene Styrene
Shanghai KumhoSunny Plastics Co., Ltd.

Message:
HFA700HTis high heat resistance enviromental flame retardant ABS resin. It has balance mechanical properties and a wide processing window. HFA700HT is mainly used in temperature controller, electron parts,etc.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.0	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)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.0	°C	ASTM D648
Vicat Softening Temperature	103	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	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	200 to 210	°C
Middle Temperature	210 to 220	°C
Front Temperature	210 to 225	°C
Nozzle Temperature	210 to 225	°C
Processing (Melt) Temp	210 to 230	°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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