

KumhoSunny ABS HFA700

Acrylonitrile Butadiene Styrene

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HFA700 is high impact and enviromental and flame retardant ABS resin. It has balance flow properties, mechanical properties and heat resistance. HFA700 is mainly used in computer monitor, printer, copier, TV shell, plug connector requiring flame class, etc.

General Information			
UL YellowCard	E254819-100125893		
Additive	Flame Retardant		
Features	Flame Retardant		
	High Impact Resistance		
Uses	Computer Components		
	Connectors		
	Electrical/Electronic Applications		
	Printer		
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)	65	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	2100	MPa	ASTM D790
Flexural Strength	55.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	240	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	85.0	°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	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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