

KumhoSunny ASA 200FR

Acrylonitrile Styrene Acrylate

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

200FR is injection grade and flame retardant ASA resin. It has high weather resistance properties and heat resistance properties and UV resistance properties. 200FR is mainly used in satellites antenna box, electric control box, storage cell housing, sutomatic irrigate machine housing, vehicle scuttle, etc.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good UV Resistance		
	Good Weather Resistance		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
	Housings		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	45	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)	20	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	60.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	76.0	°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 (1.60 mm)	V-0		UL 94
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	190 to 200	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	190 to 210	°C	
Nozzle Temperature	190 to 210	°C	
Processing (Melt) Temp	200 to 220	°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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