

KumhoSunny PC/ASA HSC7079

Acrylonitrile Styrene Acrylate + PC

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HSC7079 is a high heat resistance PC/ASA resin.PC/ASAHSC7079 has been widely used in Auto, such as rearview mirror .

General Information			
Features	Good Weather Resistance		
	High Heat Resistance		
Uses	Automotive Applications		
	Electrical Parts		
	Electrical/Electronic Applications		
	Outdoor Applications		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.15	g/cm ³	ASTM D792
--	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/10.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage			
Flow	0.50 to 0.70	%	ASTM D955
--	0.50 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	63.0	MPa	ASTM D638
--	58.0	MPa	ISO 527-2/50
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus			
--	2100	MPa	ASTM D790
-- ¹	2300	MPa	ISO 178
Flexural Strength			
--	70.0	MPa	ASTM D790
-- ²	75.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179
-30°C	25	kJ/m ²	
23°C	52	kJ/m ²	
Charpy Unnotched Impact Strength ⁴ (23°C)	No Break		ISO 179
Notched Izod Impact			
3.20 mm	600	J/m	ASTM D256
23°C ⁵	46	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	129	°C	ASTM D1525 ⁶
--	126	°C	ISO 306/B50
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 (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	260 to 270	°C	
Nozzle Temperature	250 to 260	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	50.0 to 80.0	°C	
Back Pressure	0.300 to 1.00	MPa	
Screw Speed	30 to 70	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	4J		
4.	4J		
5.	5.5J		
6.	Rate B (120°C/h)		

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