

KumhoSunny PC/ASA HSC7079Z

Acrylonitrile Styrene Acrylate + PC

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HSC7079Z is a low gloss and high heat resistance PC/ASA resin. HSC7079Z has been widely used in Auto, such as rearview mirror .The HSC7079Z is usually used in the non-spraying parts with the fine or coarse striae.

General Information			
Features	Good UV Resistance		
	High Heat Resistance		
	Low Gloss		
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)	12	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			
--	60.0	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	20	kJ/m ²	
23°C	45	kJ/m ²	
Charpy Unnotched Impact Strength ⁴ (23°C)	No Break		ISO 179
Notched Izod Impact			
3.20 mm	400	J/m	ASTM D256
23°C ⁵	40	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	108	°C	ASTM D648
1.8 MPa, Unannealed ⁶	110	°C	ISO 75-2/A
Vicat Softening Temperature			
--	125	°C	ASTM D1525 ⁷
--	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
Optical	Nominal Value		Test Method
Gardner Gloss	30		ASTM D1003
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.	120°C/h
7.	Rate B (120°C/h)

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