

KIBISAN® PN-107

Styrene Acrylonitrile

CHI MEI CORPORATION

Message:

KIBISAN® PN-107 is a styrene propylene fine (SAN) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Features include:

flame retardant/rated flame

ROHS certification

Transparency

General Information			
UL YellowCard	E56070-501316		
Features	Definition, high		
RoHS Compliance	RoHS compliance		
Resin ID (ISO 1043)	>SAN		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.06	g/cm ³	ASTM D792
23°C	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	58.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.20 - 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ²	60.7	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/50
Fracture	65.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ³	5.0	%	ASTM D638
Fracture	4.0	%	ISO 527-2/50
Flexural Modulus			
-- ⁴	3450	MPa	ASTM D790
-- ⁵	2600	MPa	ISO 178
Flexural Strength			
-- ⁶	88.3	MPa	ASTM D790
-- ⁷	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179

Notched Izod Impact			
23°C, 3.20 mm	18	J/m	ASTM D256
23°C, 6.40 mm	17	J/m	ASTM D256
23°C	2.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, not annealed	88.0	°C	ISO 75-2/A
1.8 MPa, annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	104	°C	ASTM D1525, ISO 306/A50 7 ⁸
--	101	°C	ISO 306/B50
CLTE - Flow	3.6E-5 - 3.8E-5	cm/cm/°C	ISO 11359-2
Heat Deflection Temperature			ASTM D648
Annealed	100	°C	ASTM D648
Unannealed	90	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating (1.5 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	75 - 80	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	160 - 180	°C	
Middle Temperature	180 - 200	°C	
Front Temperature	180 - 210	°C	
Mold Temperature	40 - 60	°C	
Injection Pressure	4.90 - 6.86	MPa	
Holding Pressure	3.92 - 5.88	MPa	
Back Pressure	0.490 - 1.47	MPa	
NOTE			
1.	23°C		
2.	6.0 mm/min		
3.	6.0 mm/min		
4.	2.8 mm/min		
5.	2.0 mm/min		
6.	2.8 mm/min		
7.	2.0 mm/min		
8.	速率 A (50°C/h), 压力1 (10N)		

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