

KIBISAN® PN-127H

Styrene Acrylonitrile

CHI MEI CORPORATION

Message:

KIBISAN® PN-127H is a Styrene Acrylonitrile (SAN) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

RoHS Compliant

General Information			
UL YellowCard	E56070-245797		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	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)	1.5	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	18.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 6.35 mm)	85		ASTM D785
Ball Indentation Hardness (H 358/30)	164	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	80.0	MPa	ISO 527-2/50
Break	80.0	MPa	ISO 527-2/50
3.18 mm ¹	76.5	MPa	ASTM D638
Tensile Elongation			
Break, 3.18 mm ²	6.0	%	ASTM D638
Break	7.0	%	ISO 527-2/50
Flexural Modulus			
6.35 mm ³	3630	MPa	ASTM D790
-- ⁴	3600	MPa	ISO 178
Flexural Strength			
6.35 mm ⁵	108	MPa	ASTM D790
-- ⁶	109	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	24	kJ/m ²	ISO 179
Notched Izod Impact			
23°C, 3.18 mm	22	J/m	ASTM D256

23°C, 6.35 mm	19	J/m	ASTM D256
--	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	19	kJ/m ²	ISO 180/1U
Impact Flexural Test			DIN 53453
Notched	3.00	kJ/m ²	
Unnotched	21.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.35 mm ⁷	94.0	°C	ASTM D648
1.8 MPa, Unannealed	91.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 6.35 mm ⁸	103	°C	ASTM D648
1.8 MPa, Annealed	102	°C	ISO 75-2/A
Vicat Softening Temperature			
--	107	°C	ASTM D1525 ⁹
--	108	°C	ISO 306/A50
--	110	°C	ISO 306/A120
--	104	°C	ISO 306/B50, ISO 306/B120

Flammability	Nominal Value	Test Method
Flame Rating (1.60 mm)	HB	UL 94

NOTE	
1.	6.0 mm/min
2.	6.0 mm/min
3.	2.8 mm/min
4.	2.0 mm/min
5.	2.8 mm/min
6.	2.0 mm/min
7.	120°C/hr
8.	120°C/hr, Annealed at 85°C for 8 hr
9.	Rate A (50°C/h)

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