

KIBISAN® PN-117

Styrene Acrylonitrile

CHI MEI CORPORATION

Message:

KIBISAN® PN-117 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	E56070-245794		
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)	2.8	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	32.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 6.35 mm)	83		ASTM D785
Ball Indentation Hardness (H 358/30)	159	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	68.0	MPa	ISO 527-2/50
Break	64.0	MPa	ISO 527-2/50
3.18 mm ¹	68.6	MPa	ASTM D638
Tensile Elongation			
Break, 3.18 mm ²	5.0	%	ASTM D638
Break	6.0	%	ISO 527-2/50
Flexural Modulus			
6.35 mm ³	3430	MPa	ASTM D790
-- ⁴	3000	MPa	ISO 178
Flexural Strength			
6.35 mm ⁵	98.1	MPa	ASTM D790
-- ⁶	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179
Notched Izod Impact			
23°C, 3.18 mm	18	J/m	ASTM D256

23°C, 6.35 mm	17	J/m	ASTM D256
--	2.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	15	kJ/m ²	ISO 180/1U
Impact Flexural Test			DIN 53453
Notched	3.00	kJ/m ²	
Unnotched	19.0	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.35 mm ⁷	90.0	°C	ASTM D648
1.8 MPa, Unannealed	89.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 6.35 mm ⁸	100	°C	ASTM D648
1.8 MPa, Annealed	100	°C	ISO 75-2/A
Vicat Softening Temperature			
--	104	°C	ASTM D1525, ISO 306/B120 8 ⁹
--	106	°C	ISO 306/A50
--	109	°C	ISO 306/A120
--	102	°C	ISO 306/B50

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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