



KIBISAN® PN-106

CHI MEI CORPORATION - Styrene Acrylonitrile

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• High Clarity
RoHS Compliance	• RoHS Compliant
Resin ID (ISO 1043)	• >SAN<

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.06		ASTM D792
Density (73°F)	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	32	cm ³ /10min	ISO 1133
Molding Shrinkage	0.20 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	8800	psi	ASTM D638
Tensile Stress (Yield)	9430	psi	ISO 527-2/50
Tensile Stress (Break)	9430	psi	ISO 527-2/50
Tensile Elongation ³ (Break)	5.0	%	ASTM D638
Tensile Strain (Break)	4.0	%	ISO 527-2/50
Flexural Modulus ⁴	500000	psi	ASTM D790
Flexural Modulus ⁵	377000	psi	ISO 178
Flexural Strength ⁴	12800	psi	ASTM D790
Flexural Stress ⁵	12900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	0.95	ft-lb/in ²	ISO 179
Notched Izod Impact			ASTM D256
73°F, 0.126 in	0.33	ft-lb/in	
73°F, 0.252 in	0.31	ft-lb/in	
Notched Izod Impact Strength (73°F)	0.95	ft-lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	190	°F	ISO 75-2/A
Heat Deflection Temperature (264 psi, Annealed)	210	°F	ISO 75-2/A
Vicat Softening Temperature	219	°F	ASTM D1525 ⁶
Vicat Softening Temperature			
--	219	°F	ISO 306/A50
--	214	°F	ISO 306/B50
CLTE - Flow	2.0E-5 to 2.1E-5	in/in/°F	ISO 11359-2

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ASTM D648
Annealed	212	°F	
Unannealed	194	°F	

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature	167 to 176	°F	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	320 to 356	°F	
Middle Temperature	356 to 392	°F	
Front Temperature	356 to 410	°F	
Mold Temperature	104 to 140	°F	
Injection Pressure	711 to 996	psi	
Holding Pressure	569 to 853	psi	
Back Pressure	71.1 to 213	psi	

Notes

¹ Typical properties: these are not to be construed as specifications.
² 23°C
³ 0.24 in/min
⁴ 0.11 in/min
⁵ 0.079 in/min
⁶ Rate A (50°C/h), Loading 1 (10 N)