

Chi Mei Kibisan® PN-117 SAN

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Molded

Material Notes:

Injection Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Kibisan-PN-117-SAN.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
Melt Flow	2.8 g/10 min	2.8 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	14 g/10 min	14 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	32 g/10 min	32 g/10 min	Melt Volume Rate (ml/10 min); ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	83	83	ASTM D790
Ball Indentation Hardness	159 MPa	23100 psi	H358/30; ISO 2039-1
Tensile Strength at Break	64.0 MPa	9280 psi	50 mm/min; ISO 527
Tensile Strength, Yield	68.0 MPa	9860 psi	50 mm/min; ISO 527
	69.36 MPa	10060 psi	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Elongation at Break	6.0 %	6.0 %	50 mm/min; ISO 527
Flexural Strength	93.0 MPa	13500 psi	2 mm/min; ISO 178
Flexural Yield Strength	97.9 MPa	14200 psi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	2.70 GPa	392 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.166 J/cm	0.310 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 6.35 mm, Temperature 23.0 °C	English @Thickness 0.250 in, Temperature 73.4 °F	Comments
	0.176 J/cm	0.330 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180/1C
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179
Impact	3.00	3.00	Impact Flexural Test Notched (KJ/m ²)
	19.0	19.0	Impact Flexural Test Unnotched (KJ/m ²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	unannealed; ISO 75
	97.0 °C	207 °F	annealed; ISO 75
Vicat Softening Point	102 °C	216 °F	50°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	104 °C	219 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	106 °C	223 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	109 °C	228 °F	120°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

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