

Chi Mei Kibiton® PB-5900 Styrene-Butadiene Copolymer

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene-Butadiene Copolymer, SBC

Material Notes:

Injection Molding, High rigidity

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Kibiton-PB-5900-Styrene-Butadiene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	9.0 g/10 min @Load 5.00 kg, Temperature 220 °C	9.0 g/10 min @Load 11.0 lb, Temperature 428 °F	Melt Volume Rate (ml/10 min); ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	26.0 MPa	3770 psi	50 mm/min, 4 mm; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min, 4 mm; ISO 527
Elongation at Break	25 %	25 %	50 mm/min, 4mm; ISO 527
Elongation at Yield	2.0 %	2.0 %	50 mm/min, 4mm; ISO 527
Flexural Strength	51.0 MPa	7400 psi	2 mm/min, 4 mm; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min, 4 mm; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	11.0 J/cm ²	52.4 ft-lb/in ²	ISO 179
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	unannealed; ISO 75
	83.0 °C	181 °F	annealed; ISO 75
Vicat Softening Point	76.0 °C @Load 5.00 kg	169 °F @Load 11.0 lb	50°C/hr; ISO 306
	81.0 °C @Load 5.00 kg	178 °F @Load 11.0 lb	120°C/hr; ISO 306
	96.0 °C	205 °F	

Thermal Properties	Metric @Load 1.00 kg	English @Load 2.20 lb	50°C/hr ISO 306 Comments
	99.0 °C	210 °F	
	@Load 1.00 kg	@Load 2.20 lb	120°C/hr; ISO 306

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