

Chi Mei Kibiton® PB-5910 SBC

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

Material Notes:

High transparency, medium stiffness, toughness

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Kibiton-PB-5910-SBC.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Melt Flow	10.5 g/10 min	10.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	
Tensile Strength at Break	19.0 MPa	2760 psi	50 mm/min, 4 mm; ISO 527
Tensile Strength, Yield	29.0 MPa	4210 psi	50 mm/min, 4 mm; ISO 527
Elongation at Break	175 %	175 %	50 mm/min, 4mm; ISO 527
Elongation at Yield	2.0 %	2.0 %	50 mm/min, 4 mm; ISO 527
Flexural Strength	39.0 MPa	5660 psi	2 mm/min, 4 mm; ISO 178
Flexural Modulus	1.60 GPa	232 ksi	2 mm/min, 4 mm; ISO 178
Izod Impact, Notched	0.294 J/cm	0.550 ft-lb/in	ASTM D256
	@Thickness 6.35 mm, Temperature 23.0 °C	@Thickness 0.250 in, Temperature 73.4 °F	
Izod Impact, Notched (ISO)	2.30 kJ/m ²	1.09 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	2.90 J/cm ²	13.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.270 J/cm ²	1.28 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	70.0 °C	158 °F	120°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	72.0 °C	162 °F	50°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	89.0 °C	192 °F	120°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	94.0 °C	201 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
	@Thickness 3.17 mm	@Thickness 0.125 in	
Transmission, Visible	90 %	90 %	ASTM D1003
	@Thickness 3.17 mm	@Thickness 0.125 in	

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