BH-MT-PI

Medical grade PI(Polyimide) tubing

Features/Applications:

BH-MT-PI is a polymer thermoset plastic that has exceptional thermal stability, chemical resistance and tensile strength. It is widely used in medical devices, including cardiovascular catheters, urological retrieval devices, neurovascular applications, balloon angioplasty, stent delivery systems, fiber optics and intravascular drug delivery.



- Operating temperature: -269℃～280℃ and intermittent 400℃;
- ISO 10993 and USP Class VI compliant;
- Compatibility with Gamma, EtO & E-beam sterilization;
- Standard color: Amber (other options are available on request.)

Technical Data

Property	Typical Value
Thermal Rating @ 20,000 Hours	220°C Minimum (428°F)
Thermal Endurance	400°C Minimum (752°F)
Tensile Strength	20,000 PSI Minimum
Hoop Stress	11,000 PSI Minimum
Burst Strength	(Hoop Stress x Wall Thickness)/OD Radius
Chemical Resistance:	Excellent, most solvents/solutions
Radiation Resistance	3.0 X 109 Gamma Dose rd
Coefficient of Friction	Kinetic 0.48, Static 0.63 ASTM D-1894-90
Coefficient of Thermal Conductivity	0.12 W/m*K ASTM F-433-77
Density @ Room Temp	1.42 g/mL @ 23C ASTM D-1505-90
Dielectric Constant	3.4 assume 0.001” (0.0254mm)wall
Dielectric Strength	4,000 Volts/0.001″(0.0254mm) Minimum
Elongation @ Break	50% Nominal
Radiation Resistance	Tensile stable, elongation retains 98% of pre-radiation (gamma) value for exposure of 10^6 J/Kg over 96 hours. assume 0.001” (0.0254mm)wall

Product Dimensions

ITEM	Standard PI Tubing		Braided Reinforced PI Tubing	
	INCH	MM	INCH	MM
Nominal ID	0.004~0.098	0.1~2.5	0.012~0.098	0.3~2.5
ID Tolerance	± 0.0002" Min	± 0.005 Min	±0.0004"	±0.01
Nominal W.T	0.0005-0.01	0.0127~0.254	0.002-0.01	0.05~0.254
W.T Tolerance	±25%	±25%	±25%	±25%
Cut Length	Max. 98.4	Max. 2500	Max. 98.4	Max. 2500