



Polyimide Tubing

Bulletin #S-6

- Polyimide tubing is produced by spirally winding strips of polyimide film using a unique adhesive for lamination. Tubing made of this material provides greater electrical, physical and mechanical insulation than most known films. Among its outstanding qualities are resistance to radiation and retention of properties through high and low temperature extremes.
- Polyimide films can be used in virtually any combination of plastic films, papers or substrates which we currently spirally wind. This allows us to meet your exact needs when the properties of more than one material are required.

Polyimide tubing is available in the following sizes:	
Inside diameters	.026" to 2.000" tolerance +/- .005"
Wall thickness	.001" to .008" tolerance +/- .001"
Lengths	up to 36" Standard tolerance +/- .250" Cut to Length tol. +/- .010"

General Properties for Polyimide Tubing	
<u>Properties</u>	<u>Data</u>
Melting point	No melting point Zero strength 815°C
Service temperature	Film - 269°C to 400°C
Service temperature	Adhesive – 180°C, and above
Dielectric strength	7000 volts for 1mil film* @ 25°C, 60 cycle
Flammability	Nonflammable UL 94V0 Rating
Resistance to ordinary industrial solvents, varnishes, and acids	Excellent
Tear and puncture resistance	Excellent
Shrinkage in tubular form	Less than 1%
Resistance to Freon	Excellent
Corrosive effect on copper	Negligible

- For more critical tolerances and information please inquire.

** Dielectric strength will vary according to gauge thickness of Polyimide film*

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Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.