

TYPICAL APPLICATIONS

- Cardiovascular catheters
- Urological retrieval devices
- Neurological applications
- Fiberoptics
- Intravascular drug delivery
- Balloon Angioplasty & Stent delivery

POLYIMIDE FEATURES

- Superior pushability & tractability
- Flexible & Kink resistant
- Column strength
- Ultra-smooth & transparent
- Chemically inert
- Transmits torque
- Tolerant to Gamma, EtO & E-beam sterilization
- Various colors
- USP Class VI Compliant

STANDARD SIZE/TOLERANCES

- Standard ID sizes from 0.004" to 0.086"
(0.10mm to 2.18mm)
- Wall thickness from 0.0005" to 0.008"
(0.0127mm to 0.2032mm)

ID SIZE/TOLERANCES

ID > 0.0200" (0.51 mm) Tolerance: $\pm 1\%$ of Nominal
 ID < 0.0200" Tolerance: $\pm 0.0002"$ (0.005 mm) of Nominal

WALL THICKNESS/TOLERANCES

Wall > 0.0010" (0.025 mm) Tolerance: $\pm 0.00025"$ (0.006 mm)
 Wall < 0.0010" Tolerance: $+0.00025"$, - 0"

MATERIAL PROPERTY INFORMATION

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 10 ⁶ Gamma Dose rd
Coefficient of Thermal Conductivity:	35.0 X 10 ⁻⁵ Cal/sec/cm ² /°C/cm
Coefficient of Thermal Expansion:	4.0 X 10 ⁻⁵ /°C
Elongation @ Break:	50% Nominal
Dielectric Strength:	4,000 Volts/0.001" Minimum
Dielectric Constant:	3.4
Melting Point:	Nonexistent
Density @ Room Temp:	1.41 g/cc
Coefficient of Friction:	0.5


MICROCUT

Eliminate your need for in-house trimming by relying on MicroLumen to provide you with precision, custom lengths. The MicroCut trim process allows us to consistently and accurately trim short lengths with square ends.

Trim capabilities
 as short as 0.0100" (0.25 mm)

Tolerances of $\pm 0.005"$ (0.13mm) to
 $\pm 0.15\%$ of length

Greatly reduces profile distortion compared to standard trim methods.

Shorter lead times due to an automated in-house process.

Applications include markers, spacers, washers, bushings, and insulative sleeving.

MicroView diagnostic capabilities.

Contract trimming available upon request.

Reduces end flash

