



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TE Connectivity Ltd.

www.te.com

Medical Tubing Solutions

MT-LWA (Laser-Welding Application)

Altera Polyolefin Tubing

Laser-Welding Process Aid

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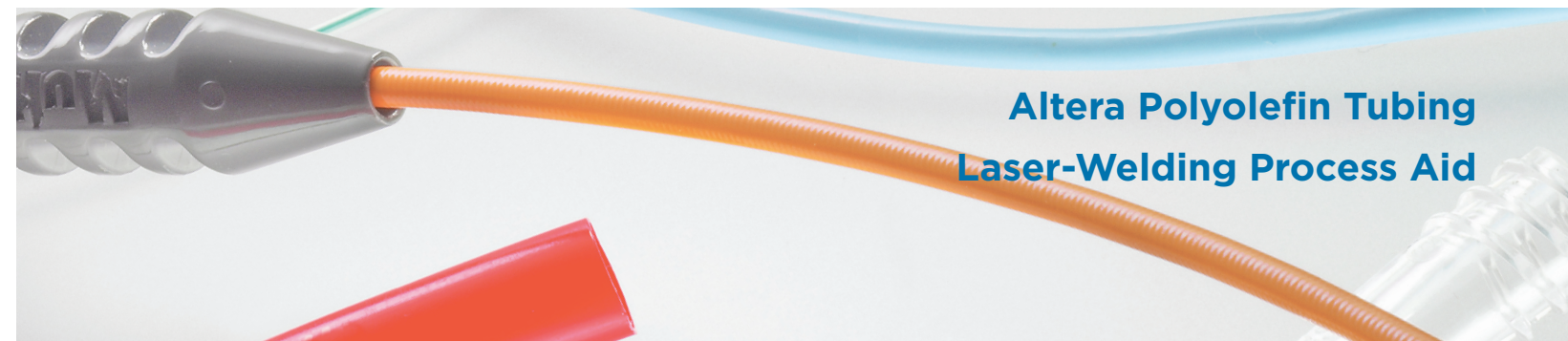
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Altera Polyolefin Tubing Laser-Welding Process Aid



Altera Polyolefin Tubing Laser-Welding Process Aid



Key Features

2:1 or 3:1 shrink ratios, custom sizes available

Flexible; forms to irregular shapes

Good clarity for laser-welding

Excellent electrical insulation properties

Removes easily after application, good axial tear propagation

DESCRIPTION

Useful for laser-welding operations of stents and balloons, hot jaw bonding or other secondary value-added processes. Heat-shrinkable tubing helps hold joints in place during operation and removes easily without residue or damage to the end product.

INSTALLATION TEMPERATURE

Minimum shrink temperature: 95°C [203°F]

Minimum Full Recovery Temperature: 121°C [250°F]

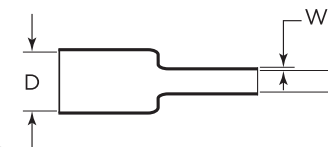
SPECIFICATIONS & APPROVALS

U.S. Pharmacopeia Class VI Plastics

ASTM D 2617

ISO 10993

Product Dimensions



Size	As Supplied		Recovered			
	Inside Diameter (D) Minimum		Inside Diameter (d) Maximum		Wall Thickness (W) Nominal	
	in.	mm.	in.	mm.	in.	mm.
1/32	0.040 ± 0.005	1.02 ± 0.13	0.013 ± 0.002	0.33 ± 0.05	0.010 ± 0.002	0.25 ± 0.05
3/64	0.055 ± 0.005	1.40 ± 0.13	0.020 ± 0.003	0.51 ± 0.08	0.012 ± 0.002	0.31 ± 0.05
1/16	0.072 ± 0.005	1.83 ± 0.13	0.027 ± 0.004	0.69 ± 0.10	0.017 ± 0.003	0.43 ± 0.08
3/32	0.107 ± 0.008	2.72 ± 0.20	0.042 ± 0.004	1.07 ± 0.10	0.020 ± 0.003	0.51 ± 0.08
1/8	0.140 ± 0.010	3.56 ± 0.25	0.057 ± 0.005	1.45 ± 0.13	0.020 ± 0.003	0.51 ± 0.08
3/16	0.205 ± 0.010	5.21 ± 0.25	0.086 ± 0.007	2.18 ± 0.18	0.020 ± 0.003	0.51 ± 0.08
1/4	0.275 ± 0.015	6.99 ± 0.38	0.117 ± 0.008	2.97 ± 0.20	0.025 ± 0.003	0.64 ± 0.08
3/8	0.415 ± 0.020	10.54 ± 0.51	0.171 ± 0.016	4.34 ± 0.41	0.025 ± 0.003	0.64 ± 0.08

ELECTRICAL

Dielectric strength: 500 V/mil (19.7 kV/mm) minimum

Dielectric Withstand 3000V, 60 Hz: 60 sec. minimum

MECHANICAL

Longitudinal change: +0, -10% maximum

Tensile strength: 1500 psi minimum (10.3 MPa)

Ultimate elongation: 200% minimum

2% Secant Modulus: 2.5 x 10⁴ psi maximum (172MPa)

ORDERING INFORMATION

Color	Clear (-X) Only
Size selection	Always order the largest size that will recover snugly over the substrate. Special order sizes are available upon request.
Standard packaging	On plastic spools (SP), double-bagged
Ordering description	Specify product name and size (for example, MT-LWA-3/32-X-SP) Non-standard sizes are available upon request. Please contact us with your MT-LWA sizing needs.

ALTERA TUBING LINE

	MT 1000	MT 2000	MT 3000	MT 5000	MT 5500	MT 6000	MT-PBX (D*)	MT-PBX (D*/D*)	MT-FEP	MT-LWA
Shrink Ratio	2:1	2.5:1	2:1	2:1	2:1	4:1	2:1	2:1	1.6:1	2:1 or 3:1
Material	Fluoropolymer	Polyolefin	Fluoropolymer	Polyolefin	Polyolefin	Polyolefin	PEBA	PEBA	Fluoropolymer	Polyolefin
Flexibility	Semi-Rigid	Semi-Rigid	Flexible	Flexible	Very Flexible	Flexible	Flex-Rigid*	Flex-Rigid*	Semi-Rigid	Flexible
Temperature (Full Rec)	175°C	110°C	150°C	105°C	100°C	125°C	190°C*	190°C*	210°C	121°C
Adhesive Layer	Optional	Optional	Optional	Optional	Optional	Optional	Optional	No	No	No

* = Shore D Durometer dependent