

ELDON JAMES

Flexelene™ LTFX is a translucent, low temperature ductility polyolefin elastomer (POE) tubing.

Flexelene™ LTFX is a flexible and durable tubing which performs well in a wide variety of general-purpose applications and has impact modification properties. The tubing can be thermally welded, and heat sealed. It has exceptional heat aging, compression set, and weather resistance properties. Flexelene™ LTFX tubing has an 84 shore A.

This tubing can be used in low temperature general use, bioprocess, medical, beverage and applications.

Typical Material Physical Properties

Property	Value / Rating	ATSM Method
Durometer, (Hardness) Shore A	84	D2240
Color	Clear, Translucent Solid	N/A
Density	.885 g/cm ³	D792
Tensile Strength psi (Mpa) ¹	2640 psi 18.2 MPa	D638
Elongation - % ¹	640%	D638

⁽¹⁾ 20 in/min (510 mm/min)

*Information provided by material vendor.
Customer should test to specific application to determine suitability.*

Product Features:

- Thermally Weldable
- Heat Sealable
- Impact and Weather Resistant
- U.S. FDA 21 CFR 177.1520(c)3.2c
- Material Certificate and Lot Traceability
- EU, No 10/2011
- Japan Hygienic Olefin and Styrene Plastics Association
- REACH and RoHS Complaint
- Ultra-low Extractables / Leachables
- PVC-Free – No DEHP Additives
- USP Class VI Biocompatibility
- Non-Animal Derived

Typical Applications:

- Industrial/General use
- Automotive and Transportation
- Electronic cooling systems

Order Information

Cat. No.	Ref ID	Actual ID	Ref OD	Actual OD	Wall	Roll Length	Minimum Bend Radius	Max. working pressure* at 68°F (20°C) psi* (bar)
LTFX1-2	1/16	0.063 ± 0.008	1/8	0.125 ± 0.008	1/32	100 ft.	0.13	82.25 (5.67 bar)
LTFX2-4	1/8	0.125 ± 0.008	1/4	0.250 ± 0.008	1/16	100 ft.	0.38	83.25 (5.73 bar)
LTFX4-6	1/4	0.265 ± 0.008	3/8	0.390 ± 0.008	1/16	100 ft.	0.90	51.50 (3.55 bar)
LTFX6-10	3/8	0.375 ± 0.008	5/8	0.625 ± .010	1/8	100 ft.	1.50	63.50 (4.39 bar)
LTFX8-12	1/2	0.510 ± 0.010	3/4	0.760 ± 0.010	1/8	100 ft.	1.80	48.00 (3.31 bar)

*Working pressure is determined using a 4:1 safety factor of the maximum burst pressure per ASTM D1599

Call us for custom sizes. Minimum quantity required.

Other Specifications

Property	Value / Rating
Sterilization Methods	Can be gamma at 25 kGy, ethylene oxide (EtO) or e-beam.
Continuous Temperature	Min: -40°C (-40°F) Max: 55°C (131°F)
Vicat Softening Temperature	63° C (145° F)
Glass Transition Temperature	-46.0° C (-50.8° F)

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Contact us at:
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