

Polyethylene & Liquiflex—POE™

Linear Low Density Polyethylene – LLDPE

Specifications

Temperature Range
LLDPE & Liquiflex:
-40°F to +150°F

Vacuum Rating
All: To 28" Hg.

Diameter Tolerance
LLDPE: ±.004"
Liquiflex: ±.005"

Hardness
LLDPE: 50 Shore D
Liquiflex: 92A

Tube Markings
LLDPE & Liquiflex:
FW Specifications

Working Pressure
LLDPE & Liquiflex:
3:1 Safety Factor

Resin Compliance
LLDPE: FDA, NSF51
Liquiflex: FDA

Polypropylene has been discontinued as a standard item. Call Customer Service for special orders.

LLDPE's greatest advantage over low density polyethylene is its superior environmental stress crack resistance (ESCR). Environmental stresses that can shorten the service life of tubing include: chemical exposure, aging, connection to barb-type fittings, or high vibration connections with compression fittings. All colors comply with FDA regulation 21 CFR 177.1520(c) for food contact applications. Freelin-Wade has chosen to standardize on linear low density polyethylene and no longer offers low density polyethylene.

Features

- Greater tensile strength
- High burst pressure
- Superior stress and crack resistance
- Tasteless and odorless
- Puncture resistance
- Impermeable to gasses and moisture
- Superior dielectric properties
- Lightweight

Polyethylene Colors

Any of our polyethylene tubing products are available in the colors shown below. If not shown as a standard item, please allow three weeks to fulfill your order. Due to LLDPE manufacturing restrictions, these color variations may require a 5,000 foot minimum.



Polyethylene (Linear Low Density: LLDPE)

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-109- ___	100' Bag									
1L-109- ___	250' Box									
1C-109- ___	500' Reel	1/8"	.062"	.031"	01 04 05 06 07 08 09 10	305 PSI	120 PSI	.40	1/2"	PI, C
1B-109- ___	1000' Reel									
1A-109- ___	2500' Reel									
1J-189- ___	100' Bag									
1L-189- ___	250' Box									
1C-189- ___	500' Reel	5/32"	.106"	.025"	01 05 06 07 08 10	175 PSI	70 PSI	.46	1"	PI, C
1B-189- ___	1000' Reel									
1A-189- ___	2500' Reel									
1J-048- ___	100' Bag									
1B-048- ___	500' Reel	1/4"	.170"	.040"	01 04 05 06 07 08 09 10 12	200 PSI	80 PSI	1.2	1-1/4"	PI, C
1A-048- ___	1000' Reel									
1J-077- ___	100' Bag									
1A-077- ___	500' Reel	5/16"	.187"	.062"	01 05 06 07 08 10	230 PSI	90 PSI	2.5	1-1/2"	PI, C
1J-074- ___	100' Bag									
1A-074- ___	500' Reel	3/8"	.250"	.062"	01 04 05 06 07 08 09 10	190 PSI	75 PSI	2.76	2"	PI, C
1J-076- ___	100' Bag									
1A-076- ___	250' Reel	1/2"	.375"	.062"	01 05 06 07 08 09 10	135 PSI	55 PSI	3.87	2-1/2"	PI, C
1AA-076- ___	500' Reel									
1A-086- ___	100' Reel									
1AA-086- ___	300' Reel	5/8"	.500"	.062"	01 10	100 PSI	40 PSI	5	3"	PI, C



Polyethylene (Linear Low Density: LLDPE)

Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-189- ___	100' Bag									
1L-189- ___	250' Box									
1C-189- ___	500' Reel	4	2.7	.65	01 05 06 07 08 10	175 PSI	70 PSI	.46	25.2 mm	PI, C
1B-189- ___	1000' Reel									
1A-189- ___	2500' Reel									
1J-071- ___	100' Bag									
1B-071- ___	500' Reel	6	4	1	01 07 10	175 PSI	70 PSI	1.1	31.8 mm	PI, C
1A-071- ___	1000' Reel									
1J-072- ___	100' Bag									
1A-072- ___	500' Reel	8	6	1	01 05 07 10	140 PSI	55 PSI	1.5	38 mm	PI, C
1J-073- ___	100' Bag									
1A-073- ___	500' Reel	10	8	1	01 07 10	115 PSI	45 PSI	2.1	51 mm	PI, C
1J-075- ___	100' Bag									
1A-075- ___	250' Reel	12	9	1.5	01 07 10	135 PSI	55 PSI	3.44	63 mm	PI, C
1AA-075- ___	500' Reel									

Variations Available:

Colors • Cutting • Printing • Packaging • Sizes



Liquiflex-POE™

- Greater flexibility
- UV Resistant
- Makes an excellent coil
- Can be bonded

Freelin-Wade has developed a new polyolefin tube that is more flexible than the polyethylene that you've seen before. It has all of the chemical resistant properties of LLDPE and is an excellent choice for conveying liquids. Note that it has low pressure ratings, particularly in warm environments.

Liquiflex-POE™

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-961- ___	100' Bag									
1B-961- ___	500' Reel	1/4"	1/8"	.062"	01	125 PSI	75 PSI	1.52	.75"	B, PI, C
1A-961- ___	1000' Reel									
1J-962- ___	100' Bag									
1C-962- ___	500' Reel	1/4"	.170"	.040"	01 05	80 PSI	20 PSI	1.08	1.375"	B, PI, C
1A-962- ___	1000' Reel									
1J-963- ___	100' Bag									
1A-963- ___	500' Reel	3/8"	.245"	.062"	07 10	75 PSI	35 PSI	2.56	1.5"	B, PI, C
1J-964- ___	50' Bag									
1A-964- ___	250' Reel	1/2"	3/8"	.062"	01 05	60 PSI	25 PSI	3.52	2.75"	B, PI, C

Coiling • Colors • Cutting • Bonding • Printing • Packaging • Sizes