

Polyethylene & Liquiflex-POE™

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 FW Specifications

Working Pressure
3:1 Safety Factor

Resin Compliance
See Material Compliance
Notice on page 2

Linear Low Density Polyethylene – LLDPE

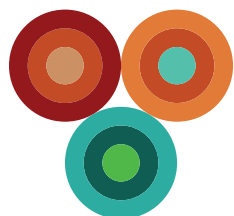
LLDPE's greatest advantage over low density polyethylene is its superior environmental stress crack resistance (ESCR). Environmental stresses that can shorten the service life of tubing include: chemical exposure, aging, connection to barb-type fittings, or high vibration connections with compression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

Features

- Superior stress and crack resistance
- Tasteless and odorless
- Impermeable to gasses and moisture
- Superior dielectric properties

Polyethylene (Linear Low Density: LLDPE)

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lb/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
1A-096- ____	150' Reel	3/4"	.625"	.062"	01 10	90 PSI	35 PSI	5	4"	PI, C
1A-098- ____	150' Reel	3/4"	.500"	.125"	01 10	200 PSI	80 PSI	10	2.5"	PI, C



Polyethylene Colors

Any of our polyethylene tubing products are available in the colors shown below. If not shown as a standard item, please allow 4 weeks to fulfill your order. Due to manufacturing restrictions, a 5000ft order may be required.

01 02 04 05 06 07 08 09 10 11 12 14



Polyethylene (Linear Low Density: LLDPE)

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lb/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 mm	2.7 mm	.65 mm	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 mm	4 mm	1 mm	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 mm	6 mm	1 mm	01 05 07 10	140 PSI	55 PSI	1.5	38 mm	PI, C
1J-073- ____	100' Bag									
1A-073- ____	500' Reel	10 mm	8 mm	1 mm	01 07 10	115 PSI	45 PSI	2.1	51 mm	PI, C
1J-075- ____	100' Bag									
1A-075- ____	250' Reel	12 mm	9 mm	1.5 mm	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 and abuse resistant than polyethylene. 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		lb/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-963- ____	100' Bag									
1A-963- ____	500' Reel	3/8"	.245"	.062"	07 10	75 PSI	35 PSI	2.56	1.5"	B, PI, C

Variations Available:

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



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