Specialty – Static Dissipative Polyurethane

Specifications - 90A

Temperature Range: -40°F to +165°F **Vacuum Rating:** To 28" Hg. **Diameter Tolerances:** ±.005" **Tube Markings:** None **Dissipative Values:** (per EIA Std 541) **Volume Resistivity:** 5 x 109 ohms-cm **Surface Resistivity:** 5×10^9 ohms/sq. **Working Pressure:** 3:1 Safety Factor **Recommended Fitting:** Barb

Static electricity is a stationary charge of electricity resting on an object's surface. With plastic tubing, the charge is generated usually by friction on the exterior or interior of the tubing. The charge is typically localized. This means that a charge may exist on one part of the tube but not the entire tube. The spotty nature of the charge makes it much harder to detect. Furthermore, humans can only sense electrostatic discharge (ESD) greater than 3,500 electrostatic volts. A charge as low as 100 ESD volts can damage certain circuits meaning that electronics can be destroyed by ESD without the person even knowing it. For more information about ESD, contact Freelin-Wade.

Freelin-Wade's Static Dissipative Polyurethane tubing is available in both a 90A durometer and an 85A durometer tube. It's made from an ether-based polyurethane that is specially formulated to help control ESD. It should always be used in low humidity environments or when tubing is going to be near circuit boards.

90A Static Dissipative Polyurethane

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	Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors		Pressure @150°F/65°C	lbs./ 100'	Bend Radius	Fitting
	1J-457-90 1C-457-90 1B-457-90 1A-457-90	100' Bag 500' Reel 1000' Reel 2500' Reel	1/8"	.066"	.030"	0	135 PSI	70 PSI	.44	1/4"	В
	1J-486-90 1C-486-90 1B-486-90	100' Bag 500' Reel 1000' Reel 2500' Reel	5/32"	3/32"	.031"	00000 0081	105 PSI	50 PSI	.61	3/8"	В
y	1J-451-90 1B-451-90 1A-451-90	100' Bag 500' Reel 1000' Reel	1/4"	.160"	.045"	0 6 0	115 PSI	60 PSI	1.46	3/4"	В
	1J-452-90 1A-452-90	100' Bag 500' Reel	3/8"	.245"	.065"	0 105	100 PSI	50 PSI	3.18	1"	В
	Part Number & Color Code	Packaging Unit Size	O.D. mm	I.D. mm	Wall mm	Standard Colors		Pressure @150°F/65°C	lbs./ 100'	Bend Radius	Sized Fitting
	1J-486-90 1A-486-90	100' Bag 2500' Reel	4	2.4	.8	000000 00	105 PSI	50 PSI	.8	9.5 mm	В
	1J-488-90 1A-488-90	100' Bag 1000' Reel	6	4	1	00 07 09 (81)	90 PSI	45 PSI	1.3	12.7 mm	В
	1J-489-90 1A-489-90	100' Bag 500' Reel	8	5	1.5	00 00	100 PSI	50 PSI	2.6	19 mm	В
	1J-490-90 1A-490-90	500' Reel	10	6.5	1.75	0 6 0	100 PSI	50 PSI	3.9	22.3 mm	В
	1J-491-90 1A-491-90	50' Bag 250' Reel	12	8	2	0	90 PSI	45 PSI	5.3	28.6 mm	В
	Also known as Fre-	Stat®					Coiling • C	Va Cutting • Bond		ns Avail ackaging •	

Request a Quote or Find a Distributor: 888-373-9233

www.freelin-wade.com

Specialty – Static Dissipative Polyurethane

Features

- Dissipates electrostatic charges with no chemical additives.
- Contains no conductive fillers and no particle emission.
- Dissipative values are permanent and cannot be washed away.
- Non-contaminating and non-outgassing.
- Ideal for low humidity environments.
- Non-corrosive to electronic leads and components.

Specifications - 85A

Temperature Range: -40°F to +165°F Vacuum Rating: To 28" Hg.

Diameter Tolerances: ±.005"

Tube Markings: None

Contact

Recommended Fitting: Barb

85A Static Dissipative Polyurethane

Part Number & Packaging Color Code Unit Size	0.D.	I.D.	Wall	Standard Colors		Pressure @150°F/65°C	lbs./ 100'	Bend Radius	Fitting	
1J-413 100' Bag 1C-413 500' Reel 1B-413 1000' Reel 1A-413 2500' Reel	1/8"	1/16"	.031"	0 (8)	115 PSI	55 PSI	48	3/16"	В	
1J-430-	5/32"	5/64"	.039"	0) 0) 0) 0) 25 27 28 45 46 8)	125 PSI	60 PSI	.74	3/8"	В	
1J-425 100' Bag 1B-425 500' Reel 1A-425 1000' Reel	,	1/8"	.062"	0 (81)	120 PSI	60 PSI	1.91	1/2"	В	
1J-405 100' Bag 1A-405 500' Reel	3/8	.245"	.065"	① 81	90 PSI	45 PSI	3.29	3/4"	В	
Metric Sized										
Part Number & Packaging Color Code Unit Size	O.D. mm	I.D. mm	Wall mm	Standard Colors		Pressure @150°F/65°C	lbs./ 100'	Bend Radius	Fitting	
1J-458 100' Bag 1A-458 1000' Reel	6	4	1	81)	70 PSI	35 PSI	1.27	9.5 mm	В	
1J-472 100' Bag 1A-472 500' Reel	9	6	1.5	0 81	80 PSI	40 PSI	2.84	19 mm	В	

Variations Available:

Coiling • Colors • Cutting • Bonding • Printed • Packaging • Sizes

Also known as Fre-Sta