

Static Dissipative Polyurethane

Specifications

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:
90A: 9.9×10^9 ohms-cm

Surface Resistivity:
90A: 9.9×10^9 ohms/sq

Working Pressure
3:1 Safety Factor

UV Stabilized
Yes

Suggested Fittings
Barb

Static electricity is a stationary charge of electricity resting on an object's surface. With plastic tubing, the charge is usually generated 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, please contact Freelin-Wade.

Freelin-Wade's Static Dissipative Polyurethane tubing is 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.

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.



90A Static Dissipative Polyurethane

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-413-90 _ 100' Bag 1C-413-90 _ 500' Reel 1B-413-90 _ 1000' Reel 1A-413-90 _ 2500' Reel		1/8"	1/16"	.031"	01 81	145 PSI	55 PSI	.48	3/16"	B
1J-486-90 _ 100' Bag 1C-486-90 _ 500' Reel 1B-486-90 _ 1000' Reel 1A-486-90 _ 2500' Reel		5/32"	3/32"	.031"	01 02 05 07 09	125 PSI	50 PSI	.61	3/8"	B
1J-430-90 _ 100' Bag 1C-430-90 _ 500' Reel 1B-430-90 _ 1000' Reel 1A-430-90 _ 2500' Reel		5/32"	5/64"	.039"	01 04 07 09 81	145 PSI	60 PSI	.74	3/8"	B
1J-425-90 _ 100' Bag 1B-425-90 _ 500' Reel 1A-425-90 _ 1000' Reel		1/4"	1/8"	.062"	01 81	145 PSI	60 PSI	1.91	1/2"	B
1J-451-90 _ 100' Bag 1B-451-90 _ 500' Reel 1A-451-90 _ 1000' Reel		1/4"	.160"	.045"	07	115 PSI	60 PSI	1.46	3/4"	B
1J-452-90 _ 100' Bag 1A-452-90 _ 500' Reel		3/8"	.245"	.065"	05	100 PSI	50 PSI	3.18	1"	B

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-486-90 _ 100' Bag 1A-486-90 _ 2500' Reel		4	2.4	.8	01 02 05 07 09	105 PSI	50 PSI	.80	9.5 mm	B
1J-488-90 _ 100' Bag 1B-488-90 _ 500' Reel 1A-488-90 _ 1000' Reel		6	4	1	01 07 09 81	90 PSI	45 PSI	1.3	12.7 mm	B
1J-489-90 _ 100' Bag 1A-489-90 _ 500' Reel		8	5	1.5	01 07	100 PSI	50 PSI	2.6	19 mm	B
1J-490-90 _ 50' Bag 1A-490-90 _ 500' Reel		10	6.5	1.75	05 07	100 PSI	50 PSI	3.9	22.3 mm	B
1J-491-90 _ 50' Bag 1A-491-90 _ 250' Reel		12	8	2	01	90 PSI	45 PSI	5.3	28.6 mm	B

Variations Available:

Coiling • Colors • Cutting • Bonding • Printing • Packaging

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