

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:
85A: 4×10^{10} ohms-cm
90A: 9.9×10^9 ohms-cm

Surface Resistivity:
85A: 1×10^{11} ohms/sq
90A: 9.9×10^9 ohms/sq

Working Pressure
3:1 Safety Factor

UV Stabilized
90A & 85A

Resin Compliance
85A: FDA

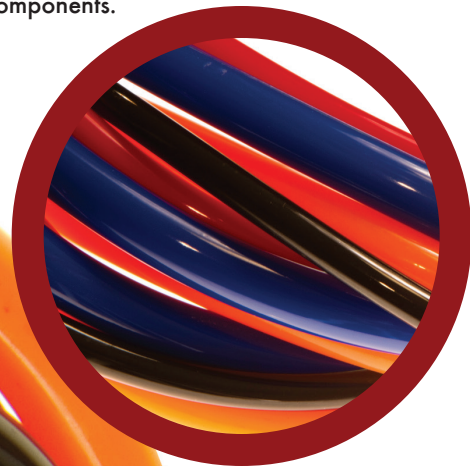
Suggested Fittings
Barb

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 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.

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.



85A 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- ___	100' Bag	1/8"	1/16"	.031"	01 81	115 PSI	55 PSI	.48	3/16"	B
1C-413- ___	500' Reel									
1B-413- ___	1000' Reel									
1A-413- ___	2500' Reel									
1J-430- ___	100' Bag	5/32"	5/64"	.039"	01 04 07 09 25 27 28 45 46 81	125 PSI	60 PSI	.74	3/8"	B
1C-430- ___	500' Reel									
1B-430- ___	1000' Reel									
1A-430- ___	2500' Reel									
1J-425- ___	100' Bag	1/4"	1/8"	.062"	01 81	120 PSI	60 PSI	1.91	1/2"	B
1B-425- ___	500' Reel									
1A-425- ___	1000' Reel									
1J-405- ___	100' Bag	3/8"	.245"	.065"	01 81	90 PSI	45 PSI	3.29	3/4"	B
1A-405- ___	500' Reel									

Metric Sizes

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-458- ___	100' Bag	6	4	1	81	70 PSI	35 PSI	1.27	9.5 mm	B
1B-458- ___	500' Reel									
1A-458- ___	1000' Reel									
1J-472- ___	100' Bag	9	6	1.5	01 81	80 PSI	40 PSI	2.84	19 mm	B
1A-472- ___	500' Reel									

Variations Available:

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

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-486-90 _	100' Bag	5/32"	3/32"	.031"	01 02 05 07 09	105 PSI	50 PSI	.61	3/8"	B
1C-486-90 _	500' Reel									
1B-486-90 _	1000' Reel									
1A-486-90 _	2500' Reel									
1J-451-90 _	100' Bag	1/4"	.160"	.045"	07	115 PSI	60 PSI	1.46	3/4"	B
1B-451-90 _	500' Reel									
1A-451-90 _	1000' Reel									
1J-452-90 _	100' Bag	3/8"	.245"	.065"	05	100 PSI	50 PSI	3.18	1"	B
1A-452-90 _	500' Reel									

Metric Sizes

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

Variations Available:

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