



# DUNBAR-DC-221

2:1 SHRINK RATIO, FLEXIBLE, FLAME RETARDANT, POLYOLEFIN TUBING

## Applications

DUNBAR-DC-221 is a flexible, flame retardant, heat shrinkable polyolefin tube. It is designed for a wide range of applications including insulation for electric & electronic devices, wire strain relief, and protective covering for parts such as resistors and capacitors.

## Features

- ★ Shrink ratio: 50% or more in the radial direction, 5% or less in the axial direction
- ★ In stock for immediate shipments
- ★ Continuous operating temperature: - 55°C (-67°F) to 125°C (257°F)
- ★ Flammability: UL VW-1, CSA OFT (except clear)
- ★ High resistance to abrasion, chemicals, and oils

## Standard

- ★ UL 224 (File Number: E319303)
- ★ RoHS2 & REACH Compliant

## Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	ASTM D638	Min. 1,500 psi
		Elongation		Min. 200%
	Aged	Elongation	ASTM D638	Min. 100%
	Fluid Resist.	Tensile strength	24°C/24 hrs	Min. 1,000 psi
		Dielectric strength	6 Fluids	Min. 400 Volts/mil
	Concentricity		ASTM D2671	Min. 70%
	Heat shock		250°C/4 hrs	No cracks, flowing or dripping
	Low temperature flexibility		- 55°C/4 hrs	No cracking
	Secant modulus		ASTM D882	Max. 25,000 psi
Specific gravity		ASTM D792	Max. 1.35 (Max. 1.00 Clear)	
Electrical	Dielectric strength		ASTM D2671	Min. 500 Volts/mil
	Volume resistivity		ASTM D876	Min. 10 <sup>14</sup> Ω - cm
Chemical	Copper corrosion		175°C/16 hrs	No corrosion
	Fungus resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 0.5%
	Flammability		ASTM D2671	Pass

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### Product Dimensions

Minimum Shrink Temperature: 90°C

Size	Expanded		Recovered				Standard Spool Length
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (min) (T)		
Inch Size	In.	mm	In.	mm	In.	mm	Ft.
3/64"	0.035	0.9	0.020	0.48	0.005	0.12	500 or 100
1/16"	0.051	1.3	0.026	0.66	0.007	0.18	500 or 100
3/32"	0.090	2.3	0.040	1.0	0.010	0.25	500 or 100
1/8"	0.125	3.2	0.062	1.5	0.012	0.30	500 or 100
3/16"	0.187	4.8	0.090	2.3	0.016	0.40	250 or 100
1/4"	0.248	6.3	0.118	3.0	0.018	0.45	250 or 100
5/16"	0.322	8.2	0.157	4.0	0.020	0.50	250 or 100
3/8"	0.362	9.2	0.180	4.5	0.020	0.50	200 or 100
1/2"	0.480	12.2	0.236	5.9	0.020	0.50	200 or 100
5/8"	0.633	16.1	0.315	8.0	0.024	0.60	200 or 100
3/4"	0.728	18.5	0.360	9.0	0.026	0.65	100
1"	1.000	25.4	0.500	12.7	0.030	0.75	100
1-1/4"	1.200	30.5	0.600	15.2	0.031	0.80	100
1-1/2"	1.550	40.5	0.787	20.0	0.033	0.85	100
2"	1.968	50.0	1.000	25.4	0.033	0.85	100
3"	3.000	76.2	1.614	41.0	0.050	1.26	100
4"	3.930	100	2.000	50.8	0.050	1.26	100
5"	4.720	120	2.450	62.2	0.054	1.36	100
6"	5.900	150	3.000	76.2	0.054	1.36	100
7"	7.000	178	3.583	91.0	0.054	1.36	100
8"	7.870	200	4.000	101.6	0.054	1.36	100
9"	9.000	229	4.567	116.0	0.054	1.36	100
10"	9.842	250	5.000	127.0	0.054	1.36	100

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