



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 | Min. 1,500 psi | |
| | | Elongation | Min. 200% | |
| | Aged | Elongation | 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 ¹⁴ 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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