



DUNBAR-DC-M221

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

Applications

DUNBAR-DC-M221 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 135°C (275°F)
- ★ Flammability: UL VW-1, CSA OFT (except clear)
- ★ High resistance to abrasion, chemicals, and oils

Standard

- ★ Meets the material and performance specification of AS23053/5 Class 1, Clear is Class 2
Not QPL (Mil-Spec) Approved
- ★ 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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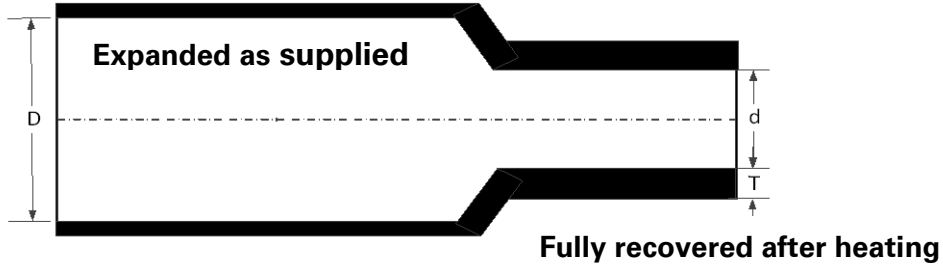
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Tubing and Identification Products

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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) | | Wall Thickness (min.) (T) | | |
| | In. | mm | In. | mm | In. | mm | Ft. |
| 3/64" | 0.046 | 1.2 | 0.023 | 0.6 | 0.013 | 0.3 | 500 |
| 1/16" | 0.063 | 1.6 | 0.031 | 0.8 | 0.014 | 0.3 | 500 |
| 3/32" | 0.093 | 2.4 | 0.046 | 1.2 | 0.017 | 0.4 | 500 |
| 1/8" | 0.125 | 3.2 | 0.062 | 1.6 | 0.017 | 0.4 | 500 |
| 3/16" | 0.187 | 4.7 | 0.093 | 2.4 | 0.017 | 0.4 | 250 |
| 1/4" | 0.250 | 6.4 | 0.125 | 3.2 | 0.022 | 0.5 | 250 |
| 5/16" | 0.331 | 8.4 | 0.157 | 4.0 | 0.022 | 0.5 | 250 |
| 3/8" | 0.375 | 9.5 | 0.187 | 4.7 | 0.022 | 0.5 | 200 |
| 1/2" | 0.500 | 12.7 | 0.250 | 6.4 | 0.022 | 0.5 | 200 |
| 5/8" | 0.657 | 16.7 | 0.315 | 8.0 | 0.027 | 0.7 | 200 |
| 3/4" | 0.750 | 19.1 | 0.375 | 9.5 | 0.027 | 0.7 | 100 |
| 1" | 1.000 | 25.4 | 0.500 | 12.7 | 0.030 | 0.7 | 100 |
| 1-1/4" | 1.291 | 32.8 | 0.630 | 16.0 | 0.034 | 0.8 | 100 |
| 1-1/2" | 1.50 | 38.1 | 0.750 | 19.10 | 0.034 | 0.8 | 100 |
| 2" | 2.00 | 50.8 | 1.00 | 25.4 | 0.038 | 0.9 | 100 |
| 3" | 3.00 | 76.2 | 1.5 | 38.1 | 0.042 | 1.0 | 100 |
| 4" | 4.00 | 101.6 | 2.0 | 50.8 | 0.046 | 1.2 | 100 |
| 5" | 5.00 | 127.0 | 2.5 | 63.5 | 0.046 | 1.2 | 100 |

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