

M23053/8 Kynar

2:1 SHRINK RATIO, HIGH TEMPERATURE, CHEMICAL RESISTANT, PVF₂ TUBING


Applications

MIL-DTL-23053/8 is semi-rigid, flame retardant, heat shrinkable polyvinylidene fluoride (PVF₂) tube for applications requiring outstanding abrasion and cut-through resistance. It reliably protects wires, solder joints, terminals, connections and components from most industrial fuels, solvents and chemicals.

Features

- ★ In stock for immediate shipment
- ★ Shrink ratio: 50% or more in the radial direction, 5% or less in the axial direction
- ★ Continuous operating temperature: - 55°C to 175°C
- ★ Flammability: UL VW-1, CSA OFT
- ★ Excellent electrical properties
- ★ High resistance to chemicals and oils

Standard

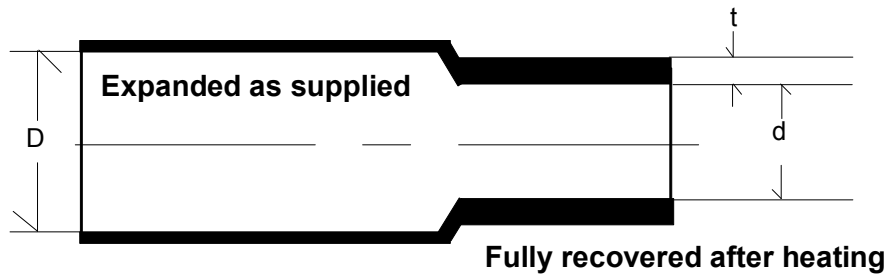
- ★ MIL-DTL-23053/8
- ★ UL 224 (File Number: E319303) 
- ★ RoHS Compliant

Specification Values

| Property | | Test Method | Value | |
|----------------|---------------------|------------------|--------------------------------------|---|
| Physical | Unaged | Tensile strength | Min. 5,000 psi | |
| | | Elongation | Min. 150% | |
| | Aged | Tensile strength | 180°C/168 hrs | Min. 70% of the value of unaged specimens |
| | | Elongation | | |
| | Deformation | | 150°C/1 hr | Max. 50% |
| | Heat shock | | 300°C/4 hrs | No cracking, flowing or dripping |
| | Cold bend | | - 55°C/4 hrs | No cracking |
| | Flexibility | | 180°C/168 hrs | No cracking |
| Secant Modulus | | 2% strain | Min. 120,000 psi | |
| Electrical | Dielectric strength | | Room temp. Min. 23.6kV / mm | |
| | Volume resistivity | | - Min. 10 ¹³ Ω - cm | |
| Chemical | Copper corrosion | | 180°C/168 hrs No corrosion | |
| | Copper stability | | 180°C/168 hrs No sign of degradation | |
| | Flammability | | VW-1 Pass | |

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Product Dimensions

Minimum Shrink Temperature: 150°C

| Size | Expanded | | Recovered | | | | Standard Spool Length |
|-----------|---------------------------------|------|---------------------------------|------|----------------------------------|-------|-----------------------|
| | Internal Diameter (Minimum) (D) | | Internal Diameter (Maximum) (d) | | Minimum Total Wall Thickness (t) | | |
| Inch Size | In. | mm | In. | mm | In. | mm | Ft. |
| 3/64" | 0.047 | 1.2 | 0.023 | 0.58 | 0.007 | 0.180 | 500 |
| 1/16" | 0.063 | 1.6 | 0.031 | 0.79 | 0.007 | 0.180 | 500 |
| 3/32" | 0.094 | 2.4 | 0.046 | 1.17 | 0.010 | 0.250 | 500 |
| 1/8" | 0.125 | 3.2 | 0.062 | 1.57 | 0.010 | 0.250 | 500 |
| 3/16" | 0.188 | 4.8 | 0.093 | 2.36 | 0.010 | 0.250 | 250 |
| 1/4" | 0.251 | 6.4 | 0.125 | 3.18 | 0.010 | 0.250 | 250 |
| 3/8" | 0.377 | 9.6 | 0.187 | 4.75 | 0.011 | 0.279 | 200 |
| 1/2" | 0.503 | 12.8 | 0.250 | 6.35 | 0.011 | 0.279 | 200 |
| 3/4" | 0.759 | 19.3 | 0.375 | 9.53 | 0.014 | 0.356 | 100 |
| 1" | 1.000 | 25.6 | 0.500 | 12.7 | 0.016 | 0.406 | 100 |

Standard Color: Clear & Black
Optional Color(s): Available by special order