

CPX 300

Thin wall high shrink ratio crosslinked polyolefin

High shrink ratio, flexible heat shrink tubing.



Features and Benefits

- Resistant to common fluids and solvents
- Flame retardant
- Flexible
- All colors except clear or transparent tubing are UV resistant
- Rated for 1 kV, 90°C continuous use
- High shrink ratio is ideal for covering irregularly sized objects
- Shrink ratio: 3:1
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C min,

Typical Applications

- Electrical insulation of in-line splices
- Strain relief of terminals
- Color coding of electronic components

3:1

Shrink ratio

-55°C - 135°C (-67°F to 275°F)

Continuous operating temperature

Markets:

Automotive, Industrial

Standards:



Standards

- UL 224 125°C - UL file # YDPU2.E63390 (Black & Colours only)
- CSA C22.2 No. 198.1 125°C - CSA file # 065781_0_000 (Black & Colours only)

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 **DSG-CANUSA**

CPX 300

| ORDER NUMBER | EXPANDED | RECOVERED | | DELIVERY UNITS |
|--------------|---------------------------|---------------------------|---------------------------------|----------------|
| | INTERNAL DIAMETER (MIN) D | INTERNAL DIAMETER (MAX) D | TOTAL WALL THICKNESS (NOM) W | SPOOL* |
| | mm (in) | mm (in) | mm (in) | m (ft) |
| 0125 | 3.2 (1/8) | 1.10 (0.042) | 0.51 (0.020) | 150 (492) |
| 0187 | 4.8 (3/16) | 1.6 (0.063) | 0.70 (0.028) | 75 (246) |
| 0250 | 6.4 (1/4) | 2.1 (0.083) | 0.66 (0.026) | 75 (246) |
| 0375 | 9.5 (3/8) | 3.2 (0.125) | 0.76 (0.030) | 75 (246) |
| 0500 | 12.7 (1/2) | 4.2 (0.165) | 0.76 (0.030) | 50 (164) |
| 0750 | 19.1 (3/4) | 6.4 (0.250) | 0.84 (0.033) | 30 (98) |
| 1000 | 25.4 (1) | 8.5 (0.333) | 0.99 (0.039) | 30 (98) |
| 1500 | 38.1 (1 1/2) | 13.00 (0.500) | 1.14 (0.045) | 30 (98) |

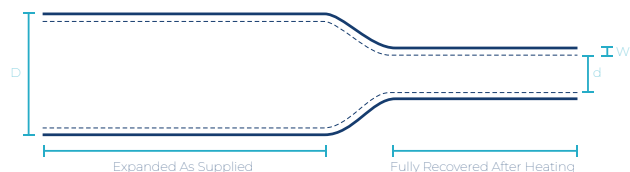
*Spool lengths are for black only

Ordering

Select a dimension which will shrink snugly over the application to be covered. If recovery is restricted the resultant wall thickness will be less than specified.

- Select options:
 - Color: Black (BK), red (RD), white (WT), blue (BL), yellow (YL), green (GR)
 - Printing: Printed or unprinted
- Please specify the product name, order number and options you require
- Example: CPX 300, 0375, black, unprinted, 246 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.



We advise that customers should separately evaluate the suitability of our products for their particular application. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. Please ask for the latest version of this data sheet. Subject to modification without prior notice.

CPX 300

Technical data

| PROPERTY | CURRENT VALUES | TEST METHODS |
|---|--------------------------------|----------------------------------|
| MATERIAL | | |
| Tensile strength | 2,200 psi (15 MPa) | ASTM D2671, ISO 37 |
| Elongation | 400% | ASTM D2671, ISO 37 |
| Longitudinal change | -10 | ASTM D2671 |
| 2% Secant modulus | 16,000 psi (110 MPa) | ASTM D2671 |
| Specific gravity | 1.3 | ASTM D792, ISO R1183 |
| Restricted shrinkage | No cracking | ASTM D2671 |
| Elongation after heat aging (168 hr at 175°C) | 350% | ASTM D2671 |
| Heat shock (4 hr at 250°C) | No cracking or flowing | ASTM D2671 |
| Low temperature flexibility (4 hr at -55°C) | No cracking or flowing | ASTM D2671 |
| Flammability | Flame retardant (except clear) | ASTM D2671 |
| ELECTRICAL | | |
| Dielectric strength | 600 V/mil (24 kV/mm) | ASTM D2671, IEC 243 |
| Volume resistivity | 1016 ohm-cm | IEC 606 ASTM D2671 |
| CHEMICAL | | |
| Fluid resistance | Good to excellent | MIL-DTL-23053/5, ISO 1817 and 37 |
| Copper corrosion | No corrosion | ASTM D2671 |
| Water absorption | 0.3% | ASTM D570 |
| Fungus resistance | No growth | ASTM G21 |

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