

# ASTRATITE® TYPE ASR-C TUBING

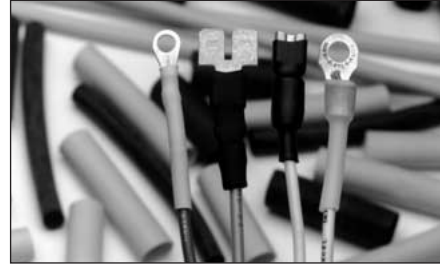
Commercial Grade Semi-Rigid Polyolefin Heat Shrinkable Tubing  
for Terminal Insulation

UL Recognized Component: Class 125°C, 600 Volt, File No. E31622



## DESCRIPTION

ASTRATITE Type ASR-C tubing is a semi-rigid, cross-linked, commercial grade heat shrinkable tubing that will recover to approximately 43% of its original diameter when heated to 135°C or higher. During the shrinking operation, the tubing will encapsulate any device inside of it at the time and will assume the contour of that device. ASTRATITE ASR-C tubing is designed particularly as an electrical terminal insulation with mechanical support. It is flame retarded, heat resistant, corrosion resistant and solvent resistant. ASTRATITE ASR-C tubing exhibits outstanding abrasion and impact resistance, and is recommended where mechanical, as well as electrical protection of parts is required. ASTRATITE ASR-C tubing will meet the physical properties requirements of MIL-I-23053/6.



## PERFORMANCE CHARACTERISTICS

| Property   | Specification           | Typical Value            |
|--|-------------------------|--------------------------|
|  |                         |                          |
| Tensile Strength                                 | ASTM D638               | 2700 psi                 |
| % Elongation                                     | ASTM D638               | 450%                     |
| Dielectric Withstand                             | 250 V/1 min             | Pass                     |
| Dielectric Strength                              | 500 V/mil               | 975 V/mil                |
| Heat Aging                                       | 175°C / 168 h           | 275% elongation          |
| Low Temperature Flexibility                      | -55°C / 4 h             | No cracking              |
| Corrosive Effect (mirror)                        | 175°C / 16 h            | No corrosion             |
| Heat Shock                                       | 250°C / 4               | No cracking              |
| Color Stability                                  | 175°C / 48 h            | No change                |
| Flammability                                     | Fed. Std. 228           | Self-extinguishing       |
| Volume Resistivity                               | ASTM D257               | 10 <sup>14</sup> ohm-cm  |
| Longitudinal Change (during restricted recovery) | 200°C / 3 min           | -6% Typ.<br>-10% Max.    |
| Secant Modulus                                   | UL 224                  | 5 x 10 <sup>4</sup> psi  |
| Water Absorption                                 | ASTM D570               | 0.15%                    |
| Solvent Resistance                               | 25°C / 24 h             | } 2200 psi<br>1000 V/mil |
|  | JP-4                    |                          |
|  | Water                   |                          |
|  | Av. Gas                 |                          |
|  | Hyd. Fluid (MIL-H-5606) |                          |
|  | Skydrol 500             |                          |
| Specific Gravity                                 | ASTM D792               | 1.20                     |

## DIMENSIONS

| Product Designation | Minimum Expanded I.D. |         | Maximum Recovered I.D. |        | Nominal Recovered Wall |        |
|---------------------|-----------------------|---------|------------------------|--------|------------------------|--------|
|                     | Inch                  | (mm)    | Inch                   | (mm)   | Inch                   | (mm)   |
| ASR-C.22            | .220                  | ( 5.58) | .095                   | (2.43) | .025                   | (0.63) |
| ASR-C.30            | .300                  | ( 7.62) | .125                   | (3.17) | .025                   | (0.63) |
| ASR-C.35            | .350                  | ( 8.89) | .150                   | (3.81) | .027                   | (0.68) |
| ASR-C.46            | .460                  | (11.68) | .200                   | (5.08) | .030                   | (0.76) |

## APPLICATIONS

Terminal insulation.  
Strain relief.

## PACKAGING

4 foot cut lengths.  
Cut to 1' lengths.  
Cut or spooled to customer specifications.

## STANDARD COLORS

Type I — Black  
Other colors available on special order.