

# QEC-150 RoHS Compliant

**ADHESIVE LINED, SEMI-RIGID, CROSSLINKED POLYOLEFIN HEAT SHRINKABLE TUBING FOR WIRING HARNESS SPLICE AND TERMINAL, SHRINK RATIO 4:1**

**Features/Applications**

Designed for high temperature automotive under hood harness and assemblies. Seals and protects against water, moisture, and chemicals. Provides abrasion protection and electrical insulation at a continuous operating temperature of -40°C to +150°C.

- Continuous Operating temperature: -40°C to +150°C
- Minimum Full recovery temperature: 135°C
- Standard colors: Black
- RoHS Compliant



| Technical Data   |               |                               |
|--|---------------|-------------------------------|
| Property   | Test Method   | Test Requirements             |
| Tensile Strength                                       | ASTM D 2671   | >10.4 MPa                     |
| Ultimate Elongation                                    | ASTM D 2671   | 300% minimum                  |
| Secant Modulus at 2% (expanded)                        | ASTM D 2671   | 241MPa minimum                |
| Heat Shock   | 250°C, 4 hrs. | No cracking, no dropping      |
| Flammability   | ISO 6722-1    | Self extinguish in 30 seconds |
| Cold Bend ( -30°C, 4 hr.)                              | UL 224        | No cracking                   |
| Short-term Heat aging 175°C for 240Hrs water tightness | GMW 17136     | Max. 5µA                      |
| Volume Resistance                                      | ASTM D 2671   | >10 <sup>13</sup> Ω.cm        |
| Resistance to Liquid Chemicals Water Tightness         | GMW 17136     | Max. 5µA                      |
| Dielectric Strength (Jacket only)                      | ASTM D 2671   | 19KV/mm Min.                  |

| Product Dimensions |                        |                        |                       |                           |                                      |     |
|--------------------|------------------------|------------------------|-----------------------|---------------------------|--------------------------------------|-----|
| Size               | As Supplied (mm)       | After Recovered (mm)   |                       |                           | Standard Packaging                   |     |
|                    | Inside Diameter (min.) | Inside Diameter (max.) | Wall Thickness (min.) | Adhesive Thickness (nom.) | Cut to Length Pcs. (QB)* Qty per bag |     |
|                    |                        |                        |                       |                           | 6"                                   | 48" |
| 0                  | 5.1                    | 1.3                    | 1.10                  | 0.76                      | 20                                   | 5   |
| 1                  | 7.6                    | 1.7                    | 1.22                  | 0.76                      | 16                                   | 5   |
| 2                  | 9.0                    | 2.3                    | 1.22                  | 0.76                      | 14                                   | 5   |
| 3                  | 11.6                   | 2.5                    | 1.99                  | 1.40                      | 12                                   | 5   |
| 4                  | 17.8                   | 4.4                    | 2.24                  | 1.52                      | 12                                   | 5   |

- Notes:
1. \* See Part Number Guide for standard packaging codes.
  2. Cross Reference Guide available.
  3. Special sizes, packaging, colors and cut pieces are available upon request.