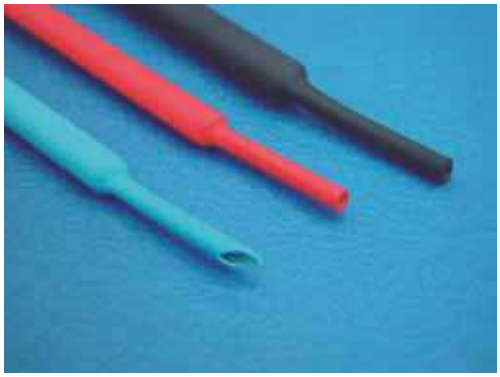
# Q5-2X

RoHS Compliant

**DUAL WALL, ADHESIVE LINED, FLEXIBLE POLYOLEFIN TUBING**
**SHRINK RATIO 2:1**



Features/Applications
Heat shrinkable dual wall adhesive lined tubing is manufactured by co-extrusion of polyolefin and hot-melt adhesive. Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

- Operating temperature: -45°C to +125°C
- Minimum shrink temperature: 100°C
- Full recovery temperature: 125°C
- Approvals[4]: File No. E236137, File No. 242540, 125°C, VW-1, 600V
- Meets: Sony-SS-00259, SAE-AMS-DTL-23053/4
- Standard color: Black
- Special colors: Red, blue, white, yellow, clear(non-flame retardant jacket)
- RoHS Compliant

## Technical Data

| Property | Test Method | Typical Data |
|---|---|---|
| Tensile Strength | ASTM D 2671 | 10.4 MPa (min.) |
| Tensile Strength After Aging | ASTM D 2671 | 158°C, 168 hrs., remains 70% |
| Elongation at Break | ASTM D 2671 | 200% (min.) |
| Elongation at Break After Aging (158°C, 168 hrs.) | ASTM D 2671 | 100% (min.) |
| Longitudinal Shrinkage | UL 224 | 0 ± 10% |
| Heat Shock | 250°C, 4 hrs. | No cracking, no dropping |
| Cold Bend ( -30°C, 1 hr.) | ASTM D 2671 | No cracking |
| Voltage Withstand (AC 2500V, 60 seconds) | ASTM D 2671 | No breakdown |
| Break Down Voltage | ASTM D 2671 | AC 2500V (min.) |
| Volume Resistance | ASTM D 876 | Min. $10^{14}$ Ω.cm (min.) |
| Flammability | SAE-AMS-DTL-23053/4 | Self extinguish in 30 seconds |
| Copper Corrosion (158°C, 168 hrs.) | UL 224 | Pass |
| Water Absorption | ASTM D 570 | < 0.5% |

## Product Dimensions

| Size | | As Supplied (mm) | After Recovered (mm) | | | Standard Packaging | | |
|---|---|---|---|---|---|---|---|---|
| Inch | mm | Inside Diameter (min.) | Inside Diameter (max.) | Total Wall Thickness (min.) | Adhesive Thickness (nom.) | Standard Spool *(SS) (Meter) | Cut to Length Pcs. *(QB) Qty per bag | |
| | | | | | | | 6” | 48” |
| 1/8 | 3.2/1.6 | 3.20 | 1.6 | 0.70 | 0.20 | 200 | 28 | 25 |
| 3/16 | 4.8/2.4 | 4.80 | 2.4 | 0.70 | 0.20 | 100 | 24 | 25 |
| 1/4 | 6.4/3.2 | 6.40 | 3.2 | 0.75 | 0.20 | 100 | 20 | 25 |
| 3/8 | 9.5/4.8 | 9.50 | 4.8 | 0.75 | 0.20 | 50 | 16 | 25 |
| 1/2 | 12.7/6.4 | 12.70 | 6.4 | 0.75 | 0.20 | 25 | 14 | 5 |
| 3/4 | 19.1/9.6 | 19.10 | 9.5 | 0.90 | 0.20 | 25 | 12 | 5 |
| 1 | 25.4/12.7 | 25.40 | 12.7 | 1.10 | 0.20 | 25 | 8 | 5 |
| 1 1/2 | 38.1/19.0 | 38.10 | 19.0 | 1.10 | 0.20 | 25 | 5 | 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.
4. Clear and Color tubing other than black are not flame retardant, UL or CSA approved.