Heat Shrink Tubing

Description
The PHD series is a flexible, polyolefin, thin wall tubing which offers the advantages of an integral adhesive lining. Provides excellent environmental protection for electronic components.

Typical Properties

Physical
- Tensile Strength: 2,100 PSI
- Ultimate Elongation: 450%
- Longitudinal Change: +1%, -5%
- Secant Modulus (2%): 17,000 PSI
- *Heat Aging (168 hrs @ 175°C): Elongation 175%
- *Heat Shock (4 hrs @ 250°C): No dripping, cracking, or flowing
- *Low Temp Flexibility (4 hrs @ -55°C): No cracking
- **Flexibility: 3
- Shrinkage: 2:1
- Shrink Temp: 121°C (250°F)
- Operating Temp: -55°C to 100°C (-67°F to 212°F)

Electrical
- Dielectric Strength: 800V/Mil
- Volume Resistivity: $10^{14}$Ω-cm

Chemical
- Corrosion Effect: Non-Corrosive
- Water Absorption: 0.3%
- Fungus Resistance: Non-nutrient
- Fluid Resistance: Excellent
- Applicable Specifications: MIL-DTL-23053/4 Class 2

Adhesive
- Peel Strength, pli
  - Polyethylene: 30
  - PVC: 10
  - Lead: 15
  - Aluminium: 40
- Corrosive Effect (Copper Mirror) Non-corrosive

*Outer wall only.

** Flexibility: The materials are rated on a scale of typical product data and should not be used for specifications purposes. Unless otherwise noted, all tests are performed at room temperature.
### Heat Shrink Tubing

**Part Number Table**

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Standard Packages (Colour: Black)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4 Foot Lengths (+1, -0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Part Number</td>
</tr>
<tr>
<td>Size (Inch)</td>
<td>Expanded I.D. (Min.) (Inch)</td>
<td>Recovered I.D. (Max.) (Inch)</td>
</tr>
<tr>
<td>PHD Series-Flame Retardant, Adhesive-Lined Tubing</td>
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<td></td>
</tr>
<tr>
<td>1/8</td>
<td>0.125</td>
<td>0.063</td>
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<tr>
<td>3/16</td>
<td>0.187</td>
<td>0.093</td>
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