MULTI-WALL PVC HEAT SHRINKABLE TUBING

VAT-105™

FEATURES

- 2:1 shrink ratio
- The only low shrink temperature PVC tubing with an inner adhesive liner
- Bonds with most substrates including PVC jacketed wire and cable
- Provides an impermeable seal that won’t deteriorate over time

USES

- Applications with PVC wire and cable
- Providing waterproof bonding
- Marine and outdoor applications
- Insulating and protecting cables, connectors, wire splices and terminals in wet environments
- Repairing insulation on frayed wire
MULTI-WALL PVC HEAT SHRINKABLE TUBING

VAT-105™

TECHNICAL DATA

- Shrink Ratio: 2:1
- Minimum Recommended Shrink Temperature: 100°C (212°F)
- Operating Temperature Range: -20°C to 105°C
- Longitudinal Shrinkage: 15% nom.
- Physical / Electrical Properties:
  - Specific Gravity: 1.32
  - Tensile Strength: 3000 psi
  - Brittleness Temperature: -28°C
  - Heat Aging: 7 days @ 136°C
    - Retention of Tensile - 102%
    - Retention of Elongation - 95%
  - Elongation: 300%
  - Volume Resistivity: 21.5 X 10¹²
  - Dielectric Strength: 1,083 vpm
  - Storage: Heat sensitive. Store at 70°F or below.

### Adhesive: Lap Shear

<table>
<thead>
<tr>
<th>Property</th>
<th>Substrate</th>
<th>Typical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 in. per min. - 1 in. overlap:</td>
<td>Vinyl to Vinyl:</td>
<td>155 lbs.</td>
</tr>
<tr>
<td></td>
<td>Vinyl to Copper:</td>
<td>101 lbs.</td>
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<tr>
<td></td>
<td>Vinyl to Stainless Steel:</td>
<td>65 lbs.</td>
</tr>
<tr>
<td></td>
<td>Vinyl to Aluminum:</td>
<td>60 lbs.</td>
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</tbody>
</table>

* Samples prepared using vinyl adhesive films, 5 min. @ 250°F, 100 psi contact pressure.

### Expanded I.D. Recovered I.D. Recovered Outer Wall Recovered Melt Wall Standard Product on Spools

<table>
<thead>
<tr>
<th>Size</th>
<th>Expanded I.D. Minimum</th>
<th>Recovered I.D. Maximum</th>
<th>Recovered Outer Wall Nominal</th>
<th>Recovered Melt Wall Nominal</th>
<th>Standard Packaging (per box)</th>
<th>Product on Spools</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
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<tr>
<td>3/16</td>
<td>.187</td>
<td>4.75</td>
<td>.093</td>
<td>2.38</td>
<td>.035</td>
<td>0.89</td>
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<tr>
<td>1/4</td>
<td>.250</td>
<td>6.35</td>
<td>.125</td>
<td>3.18</td>
<td>.035</td>
<td>0.89</td>
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<tr>
<td>3/8</td>
<td>.375</td>
<td>9.53</td>
<td>.187</td>
<td>4.75</td>
<td>.035</td>
<td>0.89</td>
</tr>
<tr>
<td>1/2</td>
<td>.500</td>
<td>12.70</td>
<td>.250</td>
<td>6.35</td>
<td>.035</td>
<td>0.89</td>
</tr>
<tr>
<td>3/4</td>
<td>.750</td>
<td>19.10</td>
<td>.375</td>
<td>9.53</td>
<td>.040</td>
<td>1.02</td>
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<tr>
<td>1</td>
<td>1.000</td>
<td>25.40</td>
<td>.500</td>
<td>12.70</td>
<td>.045</td>
<td>1.14</td>
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</tbody>
</table>

- Standard Color: Black

VAT-105™ - Vinyl Adhesive Tubing - is a trademark of Insultab.

All information presented is believed to be reliable and is offered only as a guide to product selection. As each application is unique, Insultab can make no warranties as to the suitability of any products for a particular use. Specifications are subject to change.