This HS (Heat Shrinkable) sleeving is produced by spirally winding strips of heat shrinkable polyester (Polyethylene Teraphthalate or PET) film into a tubular form. The tube is made using a special adhesive as a bonding agent. This adhesive is a uniquely formulated polyester resin that is chemically similar to and has properties comparable to the polyester film.

Since the adhesive is thermoplastic, it softens sufficiently when heat is applied to permit stress-free shrinkage throughout the sleeving. The sleeving will shrink in a few seconds if passed through an air-circulating oven at a temperature of 150°C. The sleeving will shrink to a determinable inside diameter at a preset temperature. Once the sleeving has been shrunk, it will remain dimensionally stable at the shrinking temperature or lower temperatures.

Sleeving can be supplied in clear, opaque and striped colors.

General Properties of Type HS Polyester Sleeving

<table>
<thead>
<tr>
<th>Properties</th>
<th>Data</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>250°C to 255°C</td>
<td>-</td>
</tr>
<tr>
<td>Service temperature</td>
<td>-60°C to 150°C</td>
<td>-</td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>2500 volts/mil (min)</td>
<td>ASTM D-149</td>
</tr>
<tr>
<td></td>
<td>@ 25°C, 60 cycle</td>
<td></td>
</tr>
<tr>
<td>Dielectric strength</td>
<td>2000 volts/mil (min)</td>
<td>ASTM D-149</td>
</tr>
<tr>
<td></td>
<td>@ 150°C, 60 cycle</td>
<td></td>
</tr>
<tr>
<td>Diameter shrinkage</td>
<td>35-50%</td>
<td>-</td>
</tr>
<tr>
<td>Length shrinkage*</td>
<td>25-50%</td>
<td>-</td>
</tr>
</tbody>
</table>

*Note: shrinkage properties vary depending on diameter, wall thickness and application methods.

Water absorption                         | .75% max, 24 hr. immersion @ 25°C | ASTM D-570-595 |
Corrosive effect on copper                | Negligible                     | -             |
Resistance to industrial solvents        | Excellent                      | -             |
Resistance to Freon                      | Excellent                      | -             |
Transformer oil resistance                | Excellent                      | -             |
Chemical resistance to acids, bases, impregnants & varnishes | Excellent | - |
Fungus and bacteria resistance           | Inert                          | -             |
Bending recovery                         | Excellent                      | -             |
Tear resistance                          | Excellent                      | -             |
Puncture resistance                      | Good                           | -             |
Abrasion resistance                      | Good                           | -             |
Peel strength                            | 357 grams/CM (min)             | -             |
Flammability*                            | * Slow burning self-extinguishing; will not support combustion after shrinkage on nonflammable components. | - |

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