DuPont Mylar Heat-Shrinkable Film
Dielectric Strength:
3.5kV at thickness 0.037mm
ASTMD 149
After shrinking physical and mechanical properties as similar to Mylar A non-shrinkable film
Shrinkage Mylar HS 25 to 30% 150 C
15 Minutes
DuPont Mylar A Non-Shrinkable Film
Dielectric Strength:
6.4kV at thickness 0.0254mm
ASTMD 149-64
Surface Resistivity: 25°C 30% RH
10¹ ohm square
ASTMD 257-78
Melt Point: 253-255°C
Thermal Conductivity: 0.15w/m2°C
Shrinkage Mylar A:MD 1.5% TD 1.2%
30 Minutes
Tensile Strength: MDC 25°C 200 Mpa
ASTMD882-80
Density: 25°C 1.395/g/cu3
ASTMD 1505-66
Water at 37.8°C increase in weight
0.7g/m2/24hrs/mm
Elongation: MD @ 25°C 130%
ASTMD882-80
DuPont Nomex Grade 411
Dielectric Strength: 12KV/mm
ASTMD D149
Tensile Strength:
0.130mm thick MD 17N/cm TD 9/N/cm
Tensile Strength: 0.180mm thick MD
28N/cm TD 17/N/cm
Shrinkage @ 240°C
MD 1.3 TD 0.8%
411 Has excellent varnish absorption characteristics
DuPont Nomex Grade 410
Dielectric Strength: AC Rapid rise 0.050mm 430v/0.0254mm
Dielectric Strength: AC Rapid rise 0.080mm 550v/0.0254mm
ASTMD 149
Tensile Strength:
0.050mm MD 39N/cm TD 18N/cm
Tensile Strength:
0.080mm MD 65N/cm TD 32N/cm
Shrinkage @ 300°C
0.050mm MD 2.2% TD 0.1%
0.080mm MD 1.1% TD 0.00
Volume Resistivity
Oven dry 6 x 10¹ ohms/cm
50% RH 2 x 10¹ ohms/cm
96% RH 2 x 10¹ ohms/cm
Moisture Regain @ 95% RH 8.4%
DuPont Kapton HN
Results for 0.0254mm thick film
Dielectric Strength @ 200°C
5.6kV AC 60 cycles
ASTMD149-64
Surface Resistivity @ 25°C 10¹ ohms/sq
ASTMD257-64
Tensile Strength @ 200°C 172 Mpa
ASTMD882-64T
Flammability: Self extinguishing
Melting Point: None
DuPont Kapton FN
Results for 0.037mm thick film
Dielectric Strength: 6.3kV
Moisture absorption @ 25°C
98% RH 1.7%
# Unbeatable Quality and Choice

## Type of End Closure

<table>
<thead>
<tr>
<th>Type of End Closure</th>
<th>Materials where used</th>
<th>Available as Round or Oval Caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bull nosed</td>
<td>A</td>
<td>Closed end caps but not sealed. Mainly suited to magnet wire crimp joints. Small head for easy insertion into stator coils.</td>
</tr>
<tr>
<td>Sonic welded</td>
<td>A B C D E F G H</td>
<td>A hermetic closure. Mainly used on magnet wire joints where loose single wire ends are present. Disadvantage hard end and sharp edges can damage wire insulation.</td>
</tr>
<tr>
<td>Round nosed</td>
<td>A B C D</td>
<td>Similar to standard sonic weld but with sharp corners removed with a rounded end.</td>
</tr>
<tr>
<td>Spot weld</td>
<td>A B C D E F G H</td>
<td>Mainly used with combination non-shrink caps with a heat-shrink inner lining to hold the cap in position.</td>
</tr>
<tr>
<td>Micro-dot weld</td>
<td>A B C</td>
<td>Similar to spot weld but with a very small strong dot weld to produce a cap with a soft closed end to protect the magnet wire insulation during inserting into coils. Patents pending.</td>
</tr>
<tr>
<td>Welded cap</td>
<td>F</td>
<td>Securely welded closed end cap.</td>
</tr>
<tr>
<td>Double or Triple cap</td>
<td>A B C</td>
<td>Sonic welded to support strip with or without leg. Patents issued.</td>
</tr>
</tbody>
</table>

### Material codes

- A Dupont Mylar heat-shrink film
- B Dupont Mylar A non-shrink film
- C DuPont heat-shrink film combined with DuPont Mylar A non-shrink film
- D Dupont Mylar heat-shrink film combined with DuPont Nomex grade 411
- E Kapton HN non-shrink film combined with DuPont Nomex grade 411
- F Kapton HN non-shrink film combined with Kapton FN FEP coated non-shrink film
- G DuPont Mylar A non-shrink film combined with DuPont Nomex grade 410
- H DuPont Kapton HN non-shrink film combined with DuPont Nomex grade 410