Voltoid® D-225

Designed for exposure to moderately high humidity or ambient moisture conditions

APPLICATIONS

**Circuit Breaker:**
Back plate barrier and arc chute insulation.

**Distribution Transformers:**
Breaker plates.

**Flourescent Fixture:**
Transformer core insulation.

**Electrical Appliance:**
Accessibility panel as well as an electrical and flame barrier material.

**Dry Cell Battery:**
Case material.

Interface Solutions

*Technically Reliable, Cost-Effective Solutions*
Available through: Accurate Felt & Gasket
T: 708-780-9000 E: sales@afgco.com
Voltoid® D-225 exhibits superior electrical performance and flame retardance in a competitively priced barrier or insulation material, including achieving an Underwriters Laboratories’ flame class rating of 94 V-0.

### Voltoid Typical Data Structural/Electrical Insulation Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>High Phenolic Resin Content</th>
<th>Mechanical Strength and Rigidity</th>
<th>Used for Support of Current Carrying Components</th>
<th>Tensile Strength, NO (kg)</th>
<th>Tensile Strength, CD (kg)</th>
<th>Ul 94 Flame Class</th>
<th>Nominal Temp Index</th>
<th>Relative Temp Index</th>
<th>Short Term Usage</th>
<th>Thickness</th>
<th>Sheet</th>
<th>Roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-800</td>
<td>High phenolic resin content</td>
<td></td>
<td></td>
<td>1.05</td>
<td>12,000</td>
<td>8,000</td>
<td>HB 105</td>
<td>105</td>
<td>270</td>
<td>0.031”</td>
<td>0.045”</td>
<td>0.062”</td>
</tr>
<tr>
<td>D-100</td>
<td>Widely used in appliances</td>
<td></td>
<td>for its economical combination of properties</td>
<td>1.10</td>
<td>12,000</td>
<td>7,000</td>
<td>V-0 90</td>
<td>90</td>
<td>200</td>
<td>0.031”</td>
<td>0.062”</td>
<td>0.093”</td>
</tr>
<tr>
<td>D-225</td>
<td>Superior electrical</td>
<td>performance and flame</td>
<td>retardance in a competitively priced barrier</td>
<td>1.10</td>
<td>11,000</td>
<td>7,000</td>
<td>V-0 90</td>
<td>90</td>
<td>225</td>
<td>0.015”</td>
<td>0.020”</td>
<td>0.031”</td>
</tr>
<tr>
<td>S-350</td>
<td>Cost-effective flame</td>
<td>retardant sheet, suitable</td>
<td>for flat and some formed parts.</td>
<td>0.95</td>
<td>9,000</td>
<td>4,000</td>
<td>V-0 90</td>
<td>90</td>
<td>170</td>
<td>0.020”</td>
<td>0.031”</td>
<td>0.045”</td>
</tr>
<tr>
<td>V-090</td>
<td>A medium density material</td>
<td>used primarily as a flexible</td>
<td>composite electrical insulator.</td>
<td>1.04</td>
<td>1,500</td>
<td>1,150</td>
<td>SVA 50</td>
<td>50</td>
<td>120</td>
<td>0.015”</td>
<td>0.031”</td>
<td>X</td>
</tr>
<tr>
<td>HP-450</td>
<td>A sheet-based material</td>
<td>designed to provide</td>
<td>superior flame barrier properties and</td>
<td>1.55</td>
<td>4,500</td>
<td>3,500</td>
<td>SVA 180”</td>
<td>N/A</td>
<td>350</td>
<td>0.015”</td>
<td>0.031”</td>
<td>0.045”</td>
</tr>
</tbody>
</table>

**Notes:**
- Typical values are based on 0.03” product.
- Dielectric strength determined according to ASTM D 149, short term method, using type I electrodes.
- Independent laboratory tests on motorrette systems have indicated that Voltoid HP-450 is capable of 180°C upper use temperature.

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