An excellent material for use under conditions of high humidity

APPLICATIONS

Circuit Breaker:
Back plate barrier and arc chute insulation.

Power and Distribution Transformers:
Tap changer support, dial insulators, center insulating barrier, coil mounting support insulators, coil forms, horizontal and radial spacers, terminal insulators or lead separators, cable clamps, static plates, and panel stock.

Switches:
Bases and plug socket backing plates.

Flourescent Fixture:
Current carrying, sole support insulation such as lamp holder “monument” backing plates (white or black vinyl coated).

Outdoor HID light Fixtures:
Accessibility barrier and ballast enclosure.

Electric Motor:
End laminate.

Terminal Boards:
Wood laminate replacement.
Voltoid® D-800 is a resin-bonded cellulose fiber composite material. The D-800 series of products are specially formulated to provide consistent electrical and mechanical performance under conditions of variable ambient humidity and/or moisture. D-800 is recognized by Underwriters Laboratories for continuous use as an electrical and mechanical barrier to 105°C. It is easily fabricated by being punched and blanked.

Voltoid Typical Data Structural/Electrical Insulation Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Density (pcf)</th>
<th>Tensile Strength (psi)</th>
<th>Dielectric Strength (kV/mil)</th>
<th>Relative Temp Index, Electrical (°C)</th>
<th>Thickness (mil)</th>
<th>Flame Retardant</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-800</td>
<td>1.05</td>
<td>12,000</td>
<td>8,000</td>
<td>HB 105</td>
<td>105</td>
<td>270</td>
</tr>
</tbody>
</table>

**Flame Retardant Materials**

<table>
<thead>
<tr>
<th>Material</th>
<th>Density (pcf)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>D-100</td>
<td>1.10</td>
<td>12,000</td>
<td>7,000</td>
<td>V-0 90 90 200</td>
<td>0.020&quot; 0.031&quot; 0.062&quot; 0.093&quot; 0.125&quot;</td>
<td>X</td>
</tr>
<tr>
<td>D-225</td>
<td>1.10</td>
<td>11,000</td>
<td>7,000</td>
<td>V-0 90 90 225</td>
<td>0.015&quot; 0.020&quot; 0.031&quot; 0.062&quot; 0.093&quot;</td>
<td>X</td>
</tr>
<tr>
<td>S-350</td>
<td>0.95</td>
<td>9,000</td>
<td>4,000</td>
<td>V-0 90 90 170</td>
<td>0.020&quot; 0.025&quot; 0.031&quot; 0.062&quot; 0.093&quot;</td>
<td>X</td>
</tr>
<tr>
<td>V-090</td>
<td>1.05</td>
<td>1,500</td>
<td>1,150</td>
<td>5VA 50 50 120</td>
<td>0.015&quot; 0.031&quot; 0.062&quot; 0.093&quot; 0.125&quot;</td>
<td>X</td>
</tr>
<tr>
<td>HP-450</td>
<td>1.55</td>
<td>4,500</td>
<td>3,500</td>
<td>5VA 180 N/A 350</td>
<td>0.015&quot; 0.031&quot; 0.062&quot; 0.093&quot; 0.125&quot;</td>
<td>X</td>
</tr>
</tbody>
</table>

**Notes:**
- Typical values are based on 0.031” product.
- Dielectric strength determined according to ASTM D 149, short term method, using type 1 electrodes.
- Independent laboratory tests on motorfer systems have indicated that Voltoid HP-450 is capable of 180°C upper use temperatures.

Please understand that you are responsible for the accuracy of all project specifications, including any Interface Solutions guide specifications that you use. Interface Solutions shall not be liable for any damages arising out of the use of any of its guide specifications.

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