## TEST METHODS COMPARISON
### NEMA MW1000 VS IEC 60851

<table>
<thead>
<tr>
<th>NEMA OR IEC TEST</th>
<th>Comparison to IEC Method</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Technically Equivalent</td>
<td>Minor Difference</td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td>X (?)</td>
<td>X (Rect.)</td>
</tr>
<tr>
<td><strong>ADHERENCE &amp; FLEXIBILITY</strong></td>
<td>X (Rect.)</td>
<td>X (Rect.)</td>
</tr>
<tr>
<td><strong>ELONGATION</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>HEAT SHOCK</strong></td>
<td>X (Rect.)</td>
<td>X (Round)</td>
</tr>
<tr>
<td><strong>SPRINGBACK</strong></td>
<td>X (&gt; AWG 14)</td>
<td>X (&lt; AWG 14)</td>
</tr>
<tr>
<td><strong>DIELECTRIC BREAKDOWN</strong></td>
<td>X (AWG 38)</td>
<td>X (Rect.)</td>
</tr>
<tr>
<td><strong>HIGH-VOLTAGE CONTINUITY</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>LOW-VOLTAGE CONTINUITY</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>DISSIPATION FACTOR</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>SOLDERABILITY</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>THERMOPLASTIC FLOW</strong> (CUT-THROUGH)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>SOILABILITY</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>DIELECTRIC STRENGTH AT RATED TEMPERATURE</strong></td>
<td>X (AWG 38)</td>
<td>X (Rect.)</td>
</tr>
<tr>
<td><strong>TRANSFORMER OIL RESISTANCE AND HYDROLYTIC STABILITY</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>REFRIGERANT EXTRACTION</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>RETAINED DIELECTRIC AFTER REFRIGERANT EXTRACTION</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>BOND</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>THERMAL ENDURANCE</strong></td>
<td>X</td>
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<tr>
<td><strong>SCRAPE RESISTANCE</strong></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td><strong>LOSS OF MASS</strong></td>
<td>N/A</td>
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</tr>
<tr>
<td><strong>ELECTRICAL RESISTANCE</strong></td>
<td>N/A</td>
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</tr>
<tr>
<td><strong>LAP SHEAR BOND STRENGTH</strong></td>
<td>X</td>
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</tbody>
</table>

**NOTE:** "EQUIVALENT" MEANS THAT TESTING METHODS ARE ESSENTIALLY THE SAME; "MINOR DIFFERENCE" MEANS THAT PROCEDURE DIFFERENCES PROBABLY DO NOT AFFECT TEST RESULTS; "MAJOR DIFFERENCE" MEANS THAT PROCEDURES ARE DIFFERENT ENOUGH TO AFFECT RESULTS.

3/29/2024