Water-based Heat Seal Formulations

DEGALAN® VP 4240 D achieves direct adhesion to aluminum and provides very good sealability versus polystyrene (PS) cup materials.

**FEATURES**
- Aqueous resin dispersion
- Pure acrylic binder
- Optimized core-shell structure
- 50% solid content

**ADVANTAGES**
- Suitable for water based heat seal lacquer formulations
- Environmental friendly dispersion
- High efficiency

**BENEFITS**
- Direct adhesion to aluminum, no primer necessary
- Broad sealing window
- Lacquer formulation for sustainable packaging with eco-friendly heat sealing

DEGALAN® VP 4240 D provides good seal strength starting at 140°C and a very broad sealing window.

**Aluminum vs. PS**
- One step coating
- Dry film coating weight 7 gsm
- Drying: 15 s / 180°C
- Sealing: 1 s, 3 bar

<table>
<thead>
<tr>
<th>Sealing Temperature</th>
<th>N/15mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>200°C</td>
<td>10</td>
</tr>
<tr>
<td>180°C</td>
<td>8</td>
</tr>
<tr>
<td>160°C</td>
<td>6</td>
</tr>
<tr>
<td>140°C</td>
<td>4</td>
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<tr>
<td>120°C</td>
<td>2</td>
</tr>
<tr>
<td>100°C</td>
<td>0</td>
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</tbody>
</table>

Initial after Sealing
After 48 h immersion into water
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