Polyurethane dispersion compostable under controlled aerobic conditions
Dispercoll U 2682
Ideal for formulating compostable adhesives

Dispercoll® U 2682 is a waterborne dispersion of an anionically modified polyurethane for application in compostable flexible lamination adhesives. Dispercoll® U 2682 shows a high degradation rate under controlled aerobic conditions, as described in DIN EN 13432 and ASTM D 6400-04.

To comply with those industry standards, adhesive manufacturers have to demonstrate the compostability of the final formulated adhesive polymer.

Dispercoll® U 2682 – how you benefit:
• Suitable for laminates that are potentially composted under controlled environment according to common industry standards
• Dry lamination possible at low temperatures
• Allows for very good bonding strength
• Can be used for food packaging
• Complies with relevant food contact regulations such as FDA 21CFR175.105

Resistance to heat and to plasticizers, fats and oils can be enhanced by the addition of 2–5% by wt. of a water-emulsible crosslinker from the Desmodur® or Bayhydur® product lines.

Aerobic biodegradation under controlled composting conditions at incubation temperature 58°C ± 2°C

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-volatile content</td>
<td>49–51%</td>
<td>DIN EN ISO 3251</td>
</tr>
<tr>
<td>(1g/1 h/125°C)</td>
<td></td>
<td></td>
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<tr>
<td>Viscosity at 23°C</td>
<td>&lt; 1,000 mPa · s</td>
<td>DIN 53019</td>
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<tr>
<td>pH value</td>
<td>6.0–9.0</td>
<td>DIN ISO 976</td>
</tr>
</tbody>
</table>

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