Chemical nature
Aqueous dispersion of polybutylacrylate

Technical data
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid content</td>
<td>approx. 50 %</td>
</tr>
<tr>
<td>pH value</td>
<td>approx. 6.0 – 7.0</td>
</tr>
<tr>
<td>Viskosity</td>
<td>approx. 15 – 40 mPa-s</td>
</tr>
<tr>
<td>Glass transition temperature</td>
<td>approx. –43 °C</td>
</tr>
<tr>
<td>Water absorption of film after 24 h</td>
<td>approx. 17 °C</td>
</tr>
</tbody>
</table>

The exact specifications can be found in the specification data sheet.

Application area
Acronal 4 D is used to manufacture pressure-sensitive adhesives for adhesive tapes and films. It must be borne in mind that plasticizer migration can affect the adhesive properties of products applied to plasticized PVC film.

Processing
Attention needs to be paid to the pH when Acronal 4 D is mixed with other dispersions. The pH of mixtures of dispersions containing Acronal 4 D should be no higher than 8, because otherwise they can coagulate.

The mechanical stability of adhesives can be improved by adding small amounts of Collacral VAL. Wetting problems can often be overcome by adding about 0.5 % of a surfactant such as Lumiten I-SC.

We would recommend adding preservatives to adhesives formulated with Acronal 4 D to protect them from being attacked by microorganisms. Trials should be performed to test and monitor the efficacy of the preservatives.

Commercial antifoams such as Lumiten E-L can be used to suppress foam. It is usually sufficient to add 0.05 – 0.2 %, expressed as a proportion of the adhesive.

Customers have to carry out their own trials when developing and processing pressure-sensitive adhesives based on Acronal 4 D. The compatibility of Acronal 4 D with other ingredients of formulations and its ability to wet and adhere to different substrates, etc., are affected by a variety of factors which are too numerous for us to take into account in our own trials.

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