Acronal® 3618
Adhesive Raw Materials

Chemical nature
Aqueous dispersion of an acrylate copolymer containing carboxyl groups

Technical data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Solid content</td>
<td>approx. 69%</td>
</tr>
<tr>
<td>pH value</td>
<td>approx. 3.5 – 6.0</td>
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<tr>
<td>Viskosity EV ISO 3219</td>
<td>approx. 800 – 1600 mPa·s</td>
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<tr>
<td>Glass transition temperature</td>
<td>approx. –40 °C</td>
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The exact specifications can be found in the specification data sheet.

Advantages
Acronal 3618 forms a film with good immediate tack, high peel strength and good cohesion. It is used to manufacture pressure-sensitive adhesives for self-adhesives articles.

Coatings that contain Acronal 3618 also have good adhesive properties at low temperatures, are relatively insensitive to water, and adhere very well to films of plasticised and unplasticised PVC, polyester and electrically treated polyolefin films, even without an adhesion promoter.

Applications
If Acronal 3618 is to be mixed with another dispersion, the pH should be adjusted to the slightly alkaline range. Note that the viscosity increases when the pH is raised.

In the event of poor wetting, it is often helpful to add about 0.5 % of a wetting agent (e.g. Lumiten® I-SC).

Commercially available antifoaming agents (e.g. Lumiten E-L) are suitable for suppressing foam. Usually the addition of 0.05–0.2 % of the antifoaming agent in the formulation is sufficient.

We recommend adding a preservative to adhesives based on Acronal 3618 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials. Adhesives based on Acronal 3618 can be applied using commonly available application devices such as flat blade, Meyer-bar, air brush, reverse roll, reverse gravure, curtain-coater and nozzle.

When developing adhesives based on Acronal 3618 careful in-house trials have to be carried out. The compatibility of Acronal 3618 with other ingredients of formulation 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.

The data contained in this publication are based on our current knowledge and experience. They do not constitute the agreed contractual quality of the product and, in view of the many factors that may affect processing and application of our products, do not relieve processors from carrying out their own investigations and tests. The agreed contractual quality of the product at the time of transfer of risk is based solely on the data in the specification data sheet. Any descriptions, drawings, photographs, data, proportions, weights, etc. given in this publication may change without prior information. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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BASF SE
Regional Business Unit
Dispersions for Adhesives, Construction & Paper Europe
67056 Ludwigshafen, Germany

www.basf.dedispersions