

Acronal[®] 3618

Adhesive Raw Materials



We create chemistry

Chemical nature

Aqueous dispersion of an acrylate copolymer containing carboxyl groups

Technical data

Solids content	approx. 69%
pH value	approx. 3.5 – 6
Viscosity ISO 3219	approx. 800 – 1600 mPa·s
Glass transition temperature	approx. – 40 °C

For detailed information see 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.

Application

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.

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