Acronal® 3618

Adhesive Raw Material

Chemical nature Aqueous dispersion of an acrylate copolymer containing carboxyl groups

Properties

Physical form Liquid

Technical data
(not supply specification)

Solid content	DIN EN ISO 3251	67.0 – 70.0 %
pH value	DIN ISO 976	3.0 – 6.0
Viscosity, dynamic	DIN EN ISO 3219, Annex A (23 °C, 250 1/s)	800 – 1,600 mPa.s
Glass transition temperature		~ –40°C

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. Foamaster® WO 2323) 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.

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.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. 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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