

Acronal[®] 3640

Adhesive Raw Material

Advantages Acronal 3640 is used in the manufacture of adhesives for film lamination. It is particularly suitable for glossy films, as it adheres well to suitably Corona- treated olefinic surfaces as well as to acetate- and polyester-films.

Chemical nature Aqueous dispersion of an acrylate copolymer that crosslinks at room temperature.

Properties

Physical form Liquid, dispersion

| Technical data | | | |
|----------------------------------|------------------------------|-----------------|----------------|
| (no supply specification) | Solid content | DIN EN ISO 3251 | 54 – 56 % |
| | pH value | DIN ISO 976 | 4.5 – 6.5 |
| | Viscosity | DIN EN ISO 3219 | 50 – 150 mPa.s |
| | Glass transition temperature | | ~ – 20 °C |

Application

Adhesives made of Acronal 3640 crosslink at room temperature once they have dried. This results in an increase in cohesion, which improves the resistance to embossing and grooving.

The properties of Acronal 3640 in foaming and wetting must be adjusted to the requirements of the coating machine by adding suitable auxiliaries. As a result of special care in manufacture, the amount of coagulate and grid in the product is very small. It is nevertheless recommended to pass adhesives made with Acronal 3640 through a fine filter before use.

If Acronal 3640 is to be mixed with other dispersions, attention must be paid to the pH value. It should not exceed the neutral range.

We recommend adding a preservative to adhesives based on Acronal 3640 to protect from microbial attack. The suitability of such additives must be verified and monitored in trials.

Manufacturers must carefully carry out their own trials when developing adhesives based on Acronal 3640. There are a lot of factors in production and processing that we cannot cover exhaustively in our trials, but which can influence the compatibility with other components of adhesives, their wetting or the adhesion to different substrates.

Storage

Acronal 3640 has a shelf life of six months at 10 – 30 °C.

The product must not be allowed to come into contact during storage with metals or alloys that are susceptible to corrosion. It is important to ensure that containers are kept tightly sealed, and the headspace of bulk storage tanks must be kept saturated with water vapor. The product must not be exposed to high temperatures and it must be protected from frost.

Acronal 3640 is fully protected against microbial attack in the form in which it is supplied, but we would recommend treating it with a biocide in order to prevent problems with microorganisms from occurring during storage and processing.

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.

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