**Chemical nature**

Aqueous dispersion of an acrylate copolymer that crosslinks at room temperature

**Technical data**

- **Solid content**: approx. 56%
- **pH value**: approx. 4.5 – 6.5
- **Viscosity ISO 3219**: approx. 9.0 – 14.0 mPa·s
- **Glass transition temperature**: approx. –20 °C

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

**Advantages**

Acronal 3591 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.

Manufacturers must carefully carry out their own trials when developing adhesives based on Acronal 3591, as there is a host of factors in production and processing that we cannot cover exhaustively in our trials which can influence compatibility with other components of the adhesives, their wetting of and adhesion to different substrates etc.

Acronal 3591 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 3591 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.

Adhesives made from Acronal 3591 crosslink at room temperature once they have dried. This results in an increase in cohesion, which gives laminating adhesives good resistance to embossing and piping. The properties of Acronal 3591 (foaming, wetting) must be adjusted to the requirements of the coating machine by adding auxiliaries. The foam formation during the coating process is negligible.

As a result of special care in manufacture, the amount of coagulate and specs in the product is very small. It is nevertheless recommended to pass adhesives made with Acronal 3591 through a fine filter before use. If Acronal 3591 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 3591 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.

**Applications**

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.

Edition: February 2015

This data sheet will be rendered invalid if it is superseded by a later version.

® = registered trademark of BASF SE