

Acronal[®] 3591

Adhesive Raw Material

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.

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	55 – 57 %
	pH value	DIN ISO 976	5.5 – 7.5
	Viscosity	DIN EN ISO 3219	50 – 150 mPa.s
	Glass transition temperature		~ – 20 °C

Application

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.

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.

Storage

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.

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.

® = Registered trademark

™ = Trademark of the BASF Group, unless otherwise noted

BASF SE

Dispersions & Resins Europe
67056 Ludwigshafen, Germany
www.basf.com/dispersions