

Acronal[®] 3749

Adhesive Raw Material

Product description Acronal[®] 3749 is used in the manufacture of pressure-sensitive adhesives for self-adhesive products. The adhesives adhere well to electrically treated polyolefin films and are used mainly for products with weak adhesion, e. g. protective films. As a rule, such products can be peeled off cleanly from many different types of surface without ghosting. To enable this, comprehensive trials to establish their suitability are essential.

Chemical nature Aqueous dispersion of an acrylate copolymer with carboxylic groups that can be crosslinked by heating.

Properties

Physical form liquid

Technical data (not supply specification)	Solid content	DIN EN ISO 3251	~ 49.5 %
	pH value	DIN ISO 976	2.8 – 3.8
	Viscosity, dynamic, (23 °C, 100 1/s)	DIN EN ISO 3219	20 - 100 mPa s
	Glass transition temperature		-7 °C

Application

Adhesives based on Acronal® 3749 can be applied with the usual coating systems.

It is recommended to raise the pH of Acronal® 3749 to 6.0 – 7.5 with ammonia solution before mixing it with other dispersions, to improve stability and compatibility.

In the event of poor wetting, it is often helpful to add about 0.5 % of a wetting agent such as Lumiten® I-SC.

Commercially available antifoams such as Foamaster® WO 2323 are suitable for suppressing foam. The exact amount of antifoam required must be determined in trials, though usually 0.05 – 0.2 % in the formulation is sufficient.

We recommend adding a preservative to adhesives that contain Acronal® 3749 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.

Manufacturers must carry out their own comprehensive trials for developing pressure-sensitive adhesives based on Acronal® 3749 as, in manufacture and use, a host of factors come into play such as the compatibility of their components, the nature of different plastic films and the type of substrate onto which they are to be applied that we cannot cover exhaustively in our trials. When formulating adhesives for peelable films, particular attention is to be paid to the clean and easy detachment even after a long time of adhesion for all substrates that come in question.

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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