

Acronal[®] 4 D

Adhesive Raw Material

Advantages Acronal 4 D is used to manufacture pressuresensitive adhesives for adhesive tapes and films. It must be borne in mind that plasticizer migration can affect the adhesive properties of products applied to plasticized PVC film.

Chemical nature Aqueous dispersion of polybutylacrylate.

Properties

Physical form Liquid, dispersion

Technical data (no supply specification)	Solid content	DIN EN ISO 3251	~ 50 %
	pH value	DIN ISO 976	6.0 – 7.0
	Viscosity	DIN EN ISO 3219	15 – 40 mPa·s
	Glass transition temperature		– 43 °C
	Water absorption of film after 24 h		~ 13 %

Application

Acronal 4 D is used to manufacture pressuresensitive adhesives for adhesive tapes and films. It must be borne in mind that plasticizer migration can affect the adhesive properties of products applied to plasticized PVC film.

Processing

Attention needs to be paid to the pH when Acronal 4 D is mixed with other dispersions. The pH of mixtures of dispersions containing Acronal 4 D should be no higher than 8, because otherwise they can coagulate.

Wetting problems can often be overcome by adding about 0.5 – 1 % of a surfactant such as Lumiten® I-SC.

We would recommend adding preservatives to adhesives formulated with Acronal 4 D to protect them from being attacked by microorganisms. Trials should be performed to test and monitor the efficacy of the preservatives.

Commercial antifoams such as Foamaster WO 2323 can be used to suppress foam. It is usually sufficient to add 0.02 – 0.8 %, expressed as a proportion of the adhesive.

Customers have to carry out their own trials when developing and processing pressure-sensitive adhesives based on Acronal 4 D. The compatibility of Acronal 4 D with other ingredients of formulations 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.

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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