

Acronal® 3713

Adhesive Raw Material

Product description

Acronal® 3713 is used in the manufacture of pressure-sensitive adhesives for adhesive tapes and films. Its good adhesion to electrically pretreated polyolefin surfaces, its high cohesion and relatively low tackiness predestine it for the production of removable protective films. If plasticized PVC film is used as the carrier, the possible effects of plasticizer migration on the properties of the adhesive should be checked.

Chemical nature

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

Properties

Physical form

liquid

Technical data

(not supply specification)

Solid content	DIN EN ISO 3251	~ 52 %
pH value	DIN ISO 976	7.0 – 9.0
Viscosity dynamic, (23 °C, 250 1/s)	DIN EN ISO 3219	15 - 80 mPa s
Glass transition temperature		-45 °C

Application

If Acronal® 3713 is to be mixed with another dispersion, the pH must be checked. The pH of each dispersion should lie in the 6.5 – 8 range, but not above 8, as this can bring about coagulation in mixtures containing Acronal® 3713.

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

Commercially available antifoaming agents (e. g. Foamaster® WO 2323) are suitable for suppressing foam. Usually the addition of 0.05 – 0.2 % of the antifoaming agent in the formulation is sufficient.

We recommend adding a preservative to adhesives based on Acronal® 3713 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.

Adhesives based on Acronal® 3713 can be applied using commonly available application devices such as flat blade, Meyer-bar, air brush, reverse roll, reverse gravure, curtain-coater and nozzle.

Manufacturers must carefully carry out their own experimentation when developing pressure-sensitive adhesives based on Acronal® 3713, 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.

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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