

Acronal® 3633

Acronal 3633 is an APEO-free, aqueous adhesive dispersion of an acrylate copolymer used for self-adhesive articles.

Chemical Nature

Acrylic copolymer dispersion containing carboxyl groups

Properties

Typical Properties

Solids content	%	~ 60
pH		~ 7.5
Viscosity	mPa-s	~ 500

Other properties

Glass transition temperature T _g (DSC)	°C	approx. – 35
Bulk density	g/cm ³	~ 1.04
Dispersion type		Anionic
Freeze/thaw stability		Not Stable

* These typical values should not be interpreted as specifications.

Application

Advantages

Acronal 3633 exhibits an excellent drying behavior as compared to conventional water based systems, allowing the production of articles with high coating weights. It exhibits excellent adhesion to low surface energy substrates combined with high tack and good cohesion balance as well as excellent water resistance. The product has also been found to be suitable for numerous demanding roll label type applications.

Processing

Acronal 3633 is used in the manufacturing of adhesives for self-adhesive articles, especially for free films, double sided tapes and foam tapes. Dried films of Acronal 3633 feature excellent adhesive properties on polar and non-polar rigid and porous surfaces, combined with good cohesion power and are insensitive to water stress. The viscosity of Acronal 3633 can be increased significantly by raising the pH carefully up to 8.5. Acronal 3633 can be formulated for most conventional coating methods including roll coating, mayer rod, gravure, slot die and curtain type processes.

Compatibility is given with other polymer dispersions, natural and synthetic tackifiers and plasticizers (e. g. Loxanol® PL 5060 or Plastamol® DNA) as well as thickening agents (e. g. Rheovis® AS 1420 or Rheovis® AS 1125) and wetting agents (e. g. Lumiten® I-SC).

Commercially available antifoaming agents are suitable for suppressing foam. Usually the addition of 0.05 – 0.2 % of the antifoaming agent is sufficient.

We recommend adding a preservative to adhesives based on Acronal 3633 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal 3633.

Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

Important

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