

Acronal DS 3598 na

Acronal DS 3598 na is an APEO-free, aqueous adhesive dispersion used to manufacture pressure-sensitive adhesives for self-adhesive paper and film labels requiring clarity and polyolefin adhesion

Chemical nature

Acrylic copolymer dispersion containing carboxyl groups

Properties

Typical Properties

| | | |
|--|----|------------|
| Solids content | % | ~ 60.0 |
| pH value | | ~ 8.0 |
| Viscosity at 23 °C (Brookfield RV, Spindle #4, at 50 rpm) | cP | 500 – 1300 |

Further properties of the dispersion

| | | |
|--------------------------|-------------------|---------------------------|
| Density | g/cm ³ | approx. 1.02 |
| Average particle size | µm | approx. 0.4 |
| Film-forming temperature | °C | < 1 min. |
| Freeze/thaw resistance | | not resistant to freezing |
| Dispersion type | | anionic |

Properties of the film

| | | |
|--|-------------------|--------------------|
| Bulk density | g/cm ³ | ca. 1.04 |
| Glass transition temperature T _g (DSC) | °C | ca. - 45 |
| Water absorption (After immersion for 24 hours) | % | ca. 10 |
| Appearance | | clear, transparent |
| Stability to light | | excellent |
| Surface | | highly tacky |

* These typical values should not be interpreted as specifications.

Compatible with

Polymer dispersions

Anionic dispersions and those containing a protective colloid

Thickeners

Rheovis® PU, Rheovis® AS 1125

Plasticizers

Loxanol® PL 5060

Resins

Modified and unmodified natural resins; these are added as solutions or dispersions.

Application

Features

Acronal DS 3598 na is a versatile acrylic polymer. Excellent clarity and non-yellowing characteristics make it ideal for film label or clear tape applications. For paper labels, it is an excellent base for both non-tackified and tackified applications.

Processing

When Acronal DS 3598 na is to be mixed with another dispersion, the pH should be raised to 6 – 8 which increases the mechanical stability. Adhesives based on Acronal DS 3598 na can be applied to the carrier material with the usual coating systems; e. g., doctor blade, wire, air brush, reverse roll, reverse gravure, curtain and jet applicators. In the event of poor wetting, it is often helpful to add about 0.5 % of a wetting agent such as Lumiten® I-SC.

We recommend adding a preservative to adhesives and coating materials that contain Acronal DS 3598 na to protect them from microbial attack, particularly if their pH lies in the neutral range. 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 DS 3598 na.

Storage

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

Important

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