

Acronal MS 886 S na

Polymer dispersion used to bond nonwoven fabrics

Chemical Nature

Aqueous dispersions of a heat crosslinking copolymer of acrylic esters and styrene, manufactured by a process incorporating acrylonitrile.

Properties

Typical Properties

Solids content	%	~ 50.0
pH value		~ 4.0
Viscosity at 23 °C (Brookfield RV, Spindle #1, at 50 rpm)	cps	~ 60 – 180

Further properties of the dispersion

Density	g/cm ³	approx. 1.05
Freeze/thaw stability		not stable
Dispersion type		anionic

Properties of the film

Glass transition temperature T _g (DSC)	°C	ca. 31
Appearance		colorless, transparent
Surface		hard, tack-free

Compatible with

Acronal MS 886 S na is compatible with other substances commonly used in nonwovens and saturation applications.

Crosslinking

Films formed from Acronal MS 886 S na by the evaporation of water are already partially cross linked on drying. The degree of crosslinking can be increased by heating them to 150 – 180 °C.

Catalysts such as maleic acid, phosphoric acid, diammonium hydrogen phosphonate, and latent acid catalysts can be used to speed up the rate of the crosslinking reaction.

Solvent resistance

The films formed from Acronal MS 886 S na are insoluble in most organic solvents after they have been completely crosslinked, but they do swell on solvation.

* These values should not be taken as specification

Applications

Features

Acronal MS 886 S NA is used to bond nonwoven fabrics. Nonwovens bonded with Acronal MS 886 S na have high heat resistance and very little tendency to yellow. Acronal MS 886 S na has been shown to be particularly effective for bonding polyester and glass fiber.

Processing

The pH value of compounding formulations should be in the neutral-to-alkaline range before Acronal MS 886 S na is added. Rotary displacement pumps are recommended for coating colors prepared with Acronal MS 886 S na.

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 MS 886 S na.

Storage

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

Important

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