

Acronal[®] NX 4846 X

Polymer dispersion used to bond nonwoven fabrics

Chemical nature

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

Properties

Typical Properties

| | | |
|--|-----|--------|
| Solids content | % | ~ 49.0 |
| pH value | | ~ 7.0 |
| Viscosity at 23 °C (Brookfield RV, Spindle #2, at 20 rpm) | cps | <1,000 |

Further properties of the dispersion

| | | |
|-----------------------|-------------------|-------------|
| Density | g/cm ³ | approx. 1.0 |
| Freeze/thaw stability | | not stable |
| Dispersion type | | anionic |

Properties of the film

| | |
|------------|-----------|
| Appearance | clear |
| Surface | tack-free |

Crosslinking

The films that Acronal NX 4846 X forms by the evaporation of water are already partially crosslinked on drying. The degree of crosslinking can be increased by heating to a temperature of 130 – 170 °C.

Resistance to solvents

The films formed by Acronal NX 4846 X are insoluble in water and most organic solvents once they have been completely crosslinked.

Compatible with

Acronal NX 4846 X is compatible with other substances commonly used in nonwovens and saturation applications.

* These values should not be taken as specification

Applications

Features

Acronal NX 4846 X is a sturdy, resilient binder for a variety of applications.

Acronal NX 4846 X provides excellent thermal dimensional stability at elevated temperatures.

Acronal NX 4846 X has good strength in the presence of oil or water.

Processing

The pH value of compounding formulations should be in the neutral-to-alkaline range before Acronal NX 4846 X is added.

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 NX 4846.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

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