

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

Glass transition temperature T _g (DSC)	°C	ca. 40
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.

Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

Acronal is a registered trademark of BASF Group.

© BASF Corporation, 2018



BASF Corporation is fully committed to the Responsible Care® initiative in the USA, Canada, and Mexico.

For more information on Responsible Care® go to:

U.S.: www.basf.us/responsiblecare_usa

Canada: www.basf.us/responsiblecare_canada

México: www.basf.us/responsiblecare_mexico

BASF Corporation
Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
Email: DispersionsPigmentsCC@basf.com
Email: edtech-info@basf.com
www.basf.us/formulation-additives