

Styronal[®] ND 811

Binder for Nonwoven and coating applications

Chemical Nature

A very stiff carboxylated styrene/butadiene dispersion

Properties

Typical Properties

Solids content	%	49.0 – 51.0
pH value		7.0 – 8.0
Viscosity at 23 °C (Brookfield RV, Spindle #2, at 20 rpm)	cps	50 - 200

Other properties of the dispersion

Type of dispersion		anionic
Density	g/cm ³	1.01
Freeze/thaw stability		not stable

Properties of the film

Flexible		no
Surface		tack-free
Glass transition temperature (DSC)	°C	63
Physical form		Non-film former at room temperature

Compatible with

Styronal ND 811 is compatible with many other substances commonly used in formulating adhesives and coatings. Thorough compatibility testing is recommended prior to usage.

* The above values are not to be taken as specification

Application

Features

Styronal ND 811 is a mechanically and chemically stable modifier in laminating adhesive formulations. It provides stiffness and toughness. Styronal ND 811 may also be used as a glossing additive for both paper and paperboard coatings.

Processing

The polymer dispersion should not be subjected to excessive shear, and care should be taken to avoid air being entrained. The pH value of pigment slurries should be in the neutral-to-alkaline range before Styronal ND 811 is added. Rotary displacement pumps are recommended for coating colors prepared with Styronal ND 811.

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 Material Safety Data Sheet for Styronal ND 811.

Important

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