

# Adhesives

## Technical Data Sheet

# Styronal<sup>®</sup> ND 430



### Chemical Nature

**Aqueous dispersion of a carboxylated styrene/butadiene copolymer used in the formulation of industrial adhesives for combining and laminating**

### Properties

#### Typical Properties

Solids content	%	~ 50.0
pH value		~ 8.5
Viscosity at 23 °C (Brookfield RV, Spindle #1, at 20 rpm)	cps	~ 100 – 350

#### Other properties of the dispersion

Density	lbs/gal	ca. 8.3
Bound styrene	%	ca. 55
Residual Styrene	%	0.03 max
Surface tension	nM/m	ca. 40
Average Particle size	microns	ca. 0.25
Dispersion type		anionic

#### Properties of the film

Glass transition temperature (DSC)	°C	-7
Mechanical Strength*		
Tensile strength	psi	ca. 1000
Elongation at break	%	ca. 430
Surface		slightly tacky

\* These values permit only a rough comparison of film strengths

### Compatible with

#### Polymer dispersions

Butofan<sup>®</sup> NS 144, NS 166, NS 208, Acronal<sup>®</sup> NA 217, Acronal<sup>®</sup> 3422, Styrofan<sup>®</sup> ND 593

#### Thickeners

Collacral<sup>®</sup> VL, Latekoll<sup>®</sup> D and casein solutions

### Application

Styronal<sup>®</sup> ND 430 has outstanding mechanical and chemical stability. It displays excellent adhesion and serves as the base for foil to kraft wet laminating adhesives in conjunction with casein.

### Processing

We recommend adding a preservative to adhesives and coating materials that contain Styronal<sup>®</sup> ND 430 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.

### Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Styronal® ND 430.

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## Storage

Styronal® ND 430 has a shelf life of six months from delivery date, provided it is stored in accordance with the "Handling and Storage of polymer dispersions" brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request

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