

Styronal[®] 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[®] NS 144, NS 166, NS 208, Acronal[®] NA 217, Acronal[®] 3422, Styrofan[®] ND 593

Thickeners

Collacral[®] VL, Latekoll[®] D and casein solutions

* The above values should not be taken as specification.

Application

Styronal 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

Adding a preservative to adhesives and coating materials that contain Styronal ND 430 is recommended to protect them from microbial attack, particularly if the 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.

Safety Data Sheet

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

Storage

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

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