

Adhesives

Technical Data Sheet

Styrofan[®] ND 593



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	%	~ 51.0
pH value		~ 8.8
Viscosity at 23 °C, (Brookfield RV, Spindle #2, at 20 rpm)	cps	~ 100 – 600

Other properties of the dispersion

Density	lbs/gal	ca. 8.4
Bound styrene	%	ca. 60
Residual Styrene	%	0.05 max
Surface tension	nM/m	ca. 46
Average Particle size	microns	ca. 0.17
Dispersion type		anionic

Properties of the film

Mechanical Strength		
Tensile strength*	psi	ca. 500
Elongation at break*	%	ca. 500
Surface		non-tacky

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

Compatible with

Polymer dispersions

Butofan[®] NS 144, NS 166, NS 208, Styronal[®] ND 656, ND 810

Thickeners

Collacral[®] VL, Latekoll[®] D

Resins

Commercial rosin and hydrocarbon tackifier dispersions

Application

Styrofan[®] ND 593 is chemically stable, high molecular weight dispersion.

Processing

We recommend adding a preservative to adhesives and coating materials that contain Styrofan[®] ND 593 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 Styrofan® ND 593.

Storage

Styrofan® ND 593 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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