

Adhesives

Technical Data Sheet

Styronal[®] ND 811



Binder for Nonwoven and coating applications

Chemical Nature

A very stiff carboxylated styrene/butadiene dispersion

Properties

Typical Properties

| | | |
|---|-----|------------|
| Solids content | % | ~ 50.0 |
| Viscosity at 23 °C (Brookfield RV, Spindle # 1, at 20 rpm) | cps | ~ 50 – 200 |
| pH | | ~ 7.5 |

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.

Applications

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.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Styronal[®] ND 811.

Storage

Styronal® ND 811 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

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.

Styronal is a registered trademark of BASF Group.

© BASF Corporation, 2015



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 Pigments
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
Email: edtech_info@basf.com
www.basf.us/dpsolutions