

# Butonal<sup>®</sup> 4131 X

**Chemical Nature** Cold polymerized, non-carboxylated, fatty acid stabilized styrene-butadiene copolymer for use in the manufacture of flooring adhesives and latex foam

## Properties

### Typical Properties

Solids Content	%	~ 69.0
pH		~ 10.4
Viscosity at 23°C (Brookfield LV, Spindle #3, at 30 rpm)	mPa s	~ 1000 – 2000

### Other properties of the dispersion

Density	lbs/gal	ca. 8.0
Bound Styrene	%	ca. 34
Residual Styrene	%	0.08 max.
Surface Tension	mN/m	ca. 34
Type of Dispersion		anionic
Antioxidant		none

\* These figures should be taken for comparison purposes only. All that can be obtained from it is an idea of the order of magnitude concerned.

### Compatible With

<i>Dispersions</i>	Butofan <sup>®</sup> NS 209, NS 222, Styrofan <sup>®</sup> ND 593, Styronal <sup>®</sup> ND 811
<i>Thickeners</i>	Rheovis <sup>®</sup> AS 1125
<i>Resins</i>	Commercial hydrocarbon tackifier dispersions

## Application

### Fields of Application

Butonal 4131 X is used in the manufacture of flooring adhesives and high performance foam applications. Butonal 4131 X is a high-molecular weight polymer dispersion which gives improved cohesive strength to flooring adhesives. Butonal 4131 X is a higher modulus version of Butonal NS 104.

### Processing

In general, additives should be pre-neutralized to pH > 8.5 – 9.0 (depending on the system) prior to blending with Butonal 4131 X. The exact conditions should be determined by laboratory 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 Butonal 4131 X.

## Storage

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

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BASF Corporation  
Dispersions and Resins  
11501 Steele Creek Road  
Charlotte, North Carolina 28273  
Phone: (800) 251 – 0612  
Email: [CustCare-Charlotte@basf.com](mailto:CustCare-Charlotte@basf.com)  
Email: [edtech-info@basf.com](mailto:edtech-info@basf.com)  
[www.basf.us/formulation-additives](http://www.basf.us/formulation-additives)