



# **PUD 123**

Waterborne polyurethane dispersion

## **PRODUCT DESCRIPTION**

PUD 123 is an aqueous aliphatic polyurethane dispersion.

## **CHARACTERISTIC**

Chemical Structure	Anionic alinhatic	nolvether-ester	polyurethane dispersion
Circinical Structure	Allionic, aliphatic,	polyculci catci,	polyar culture dispersion

**Appearance** Milky Liquid

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Non-volatile content	%	50+2	ASTM D2369-07	
by weight % (105°C)	70	30±2	A311VI D2303-07	
pH (23°C)		7,5±1	ISO 976	
Viscosity (23°C)	cps	2000	ISO 1652, Brookfield RVT	
		<2000	Spindle R2	

## **FILM PROPERTIES**

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100% Modulus	N/mm <sup>2</sup>	2,2	ASTM D1708-18
Elongation at break	%	>1000	ASTM D1708-18
Tensile strength	N/mm²	20	ASTM D1708-18
MFFT	°C	<0	ASTM D2354
Light Fastness	Five scale	nda*	EN ISO 105-B02

Films are dried at room temperature.

Nda\*: No Data Available

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The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. Our recommendations are in line with our present state of knowledge and do not provide any guarantee.





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#### **KEY PROPERTIES**

- Water column properties for a hollow structured woven fabric under hydrostatic water pressure,
- Transparent coating,
- Soft touch elastic film properties.

### **APPLICATIONS**

- PUD 123 can be diluted with water.
- It can be formulated with crosslinkers, pigments, thickeners, and other additives.
- Suitable for mechanical foaming, foulard and coating
  - Mix well before use.

## **PACKAGING & STORAGE**

**Packaging type** 

120 kg plastic drums, 1000 kg IBC's.



**Storage** 

In originally closed containers' dispersions are stable when stored at 10°C-30°C for 6 months. The containers must be well closed to prevent the evaporation of water which may result in the formation of a non-redispersible film. The recommended temperature-range for storage is freezing or storage at higher temperatures than 30°C can affect the viscosity or the average particle size and finally lead to a sedimentation or coagulation. A contamination with bacteria, fungi or algae can damage the product irreversibly. A longer storage than six months does not mean that the product is not usable anymore, but we recommend to checking the specification data before use.

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