

Polyfam[®] 321

Technical Data Sheet

Characteristics

Polyfam[®] 321 is an aqueous dispersion based on vinyl acetate. The dispersion is already plasticized by dibutyl phthalate.

Stabilization

Polyvinyl alcohol

Recommended Application Areas

Paper and packaging adhesives

Specification

These technical data are determined for each batch before its release by our quality control laboratory.

	Unit	Value	Dev.
Solids content (ISO 3251: 1h; 105 °C)	%	49 ±	1
Viscosity (ISO 2555; Spindle no. 7; 20 rpm; 23 °C) Brookfield-viscometer RVT	mPa.s (cP)	65000 ±	15000
pH value (ISO 976)		4.0 ±	1

Additional Data

These data are solely to describe the product. They are not subject to constant monitoring or part of the specification.

	Unit	Value
Dispersion		
Minimum film forming temperature (MFFT) (ISO 2115)	°C	4
Density (ISO 2811)	g/cm ³	approx 1.06
Film *		
Appearance		tack-free, clear and flexible
Hardness, Koenig (ISO 1522)	s	100
Dried 1hr at 60°C then 24hr at 23±2°C and 50±5% relative humidity (ISO 3270) Tested at 23±2°C and 50±5% relative humidity (ISO 3270)		

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Applications

Polyfam® 321 is mainly used for the preparation of adhesives for paper and cardboard including laminating adhesives for these materials.

Processing

The minimum film forming temperature (MFFT) of Polyfam® 321 can be lowered by high-boiling solvents such as Texanol®, butyl diglycol acetate or plasticizers such as phthalates. There is a good compatibility with the commonly used phthalates, but also with the commonly used benzoate plasticizers which is important for the manufacture of paper adhesives.

Polyfam® 321 can be used in combination with other homopolymer grades, starch derivatives and synthetic latexes. Tylose® grades have proved successful as a viscosity adjuster. Using acrylic thickeners such as Polyfam® 103 with higher thickening efficiency and lower water absorption, is sometimes preferred.

When necessary, the recommended defoamers for polymer dispersions may be used. Compatibility, however, should be checked prior to use.

Immediately after application of the finish, the machine should be washed or hosed down with water, otherwise intensive mechanical clearing will become necessary because of considerable adhesive strength of Polyfam® 321.

Preservation and Storage

The dispersion contains some initial preservatives to prevent attack by micro organisms. In order that the product is also sufficiently protected against microbial contamination during further storage in opened drums or storage tanks, a suitable preservative should be added despite our preliminary preservation measures.

Prior to use, Polyfam® 321 should be stored for no longer than 6 months at temperatures as constant as possible between 0 and 35 °C and must be protected from frost and direct exposure to sunshine. Furthermore, it must be ensured that already opened drums or containers are always tightly closed.

The technical data ascertained by our quality control laboratory at the time of product release may vary according to the storage conditions and may deviate from the stated limits.

Industry Safety and Environmental Protection

Not a hazardous substance.

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