

Polyfam[®] PR642

Technical Data Sheet

Characteristics

Polyfam[®] PR642 is sodium salt of a carboxylated polyacrylate.

Recommended Application Areas

Aqueous coating systems
Clay slurries

Pigmented paper and paperboard
coatings

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)	%	42 ±	2
Viscosity (ISO 2555; Spindle no. 2; 60 rpm; 23 °C) Brookfield-viscometer LVT	mPa.s (cP)	750 ±	250
pH value (ISO 976)		10 ±	1
Density (ISO 2811)	g/cm ³	approx 1.2	

Applications

Polyfam[®] PR642 is a low foaming dispersant in solution form with excellent dispersing activity for a variety of inorganic pigments and clays in aqueous systems.

It is especially useful in systems involving dispersions of inorganic solids, such as titanium dioxide and extenders. It has demonstrated superior performance in formulations in which reactive pigments, such as zinc oxide or basic lead silicate are incorporated, imparting improved stability to such systems.

Processing

Polyfam[®] PR642 is efficient over a wide pH range in numerous dispersion systems. For maximum effectiveness, Polyfam[®] PR642 should be used in acrylic emulsion systems at pH 9.0 to 10.0. However, in specific cases, good dispersion can be obtained at lower pH values. Polyfam[®] PR642 is quite specific in that it does not disperse organic solids such as carbon black, organic pigments or dyestuffs.

Polyfam[®] PR642 is only soluble in very polar solvents such as water, glycerin and ethylene glycol.

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.

Preservation and Storage

Prior to use, Polyfam® PR642 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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