

Styronal APEX[®] 4391

Binder for coating paper and paperboard.

Chemical Nature

Aqueous dispersion of a Styrene Butadiene copolymer.

Properties

Typical Properties

Solids content	%	49 - 51
Viscosity at 23 °C (Brookfield RV, Spindle #2, at 20 rpm)	cps	200 – 500
pH		6.5 - 7.5

Other properties of the dispersion

Type of dispersion		anionic
Density	g/cm ³	1.05
Freeze/thaw stability		not stable

Properties of the film

Appearance		clear
Flexible		yes
Surface		tack-free
Glass transition temperature (DSC)	°C	ca. 16

Compatible with

Styronal APEX 4391 is compatible with other substances commonly used in coating colors.

* The above values should not be taken as specification.

Application

Features

Styronal APEX 4391 is a high strength, next generation binder for paper and paperboard coating, including those used for food packaging. Styronal APEX 4391 exhibits good rheology for easy, trouble free application yielding coatings with good gloss and improved pick strength.

Processing

The pH value of pigment slurries should be in the neutral-to-alkaline range before Styronal APEX 4391 is added.

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 Styronal APEX 4391.

Storage

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

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