Fiber Bonding

Technical Data Sheet

Acronal[®] S 888 S



Chemical Nature

Aqueous dispersions of a heat crosslinking copolymer of acrylic esters and styrene, manufactured by a process incorporating acrylonitrile

	Properties			
Typical Properties	Solids content pH value Viscosity at 23 °C (Brookfield RV, Spindle #2, at 2	% cps 20 rpm)	~ 49.0 ~ 8.0 ~ 100 - 600	
Further properties of the dispersion	Density Freeze/thaw stability Dispersion type	g/cm³	approx. 1.05 not stable anionic	
Properties of the film	Glass transition temperature Tg (DSC) Appearance Surface	°C	ca. 31 colorless, transparent tack-free	
Compatible with	Acronal [®] S 888 S is compatible with other substances commonly used in nonwovens and saturation applications.			
Crosslinking	Films formed from Acronal [®] S 888 S by the evaporation of water are already partially cross linked on drying. The degree of crosslinking can be increased by heating them to 150 – 180 °C. Catalysts such as maleic acid, phosphoric acid, diammonium hydrogen phosphonate, and latent acid catalytsts can be used to speed up the rate of the crosslinking reaction.			
Solvent resistance	The films formed from Acronal [®] S 888 S are insoluble in most organic solvents after they have been completely crosslinked, but they do swell on solvation.			
	Applications			
Features	Acronal [®] S 888 S is used to bond nonwoven fabrics. Nonwovens bonded with Acronal [®] S 888 S have high heat resistance and very little tendency to yellow. Acronal [®] S 888 S has been shown to be particularly effective for bonding polyester and glass fiber.			
Processing			be in the neutral-to-alkaline range before Acronal® re recommended for coating colors prepared with	



Material Safety Data Sheet	the workplace, good skin care and wearing of protective goggles. All safety information is provided in the Material Safety Data Sheet for Acronal [®] S 888 S.	
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.	

Acronal[®] S 888 S has a shelf life of six months from delivery date, provided it is stored in accordance with the "Handling and Storage of polymer dispersions" brochure. Technical information regarding the storage of BASF polymer dispersion products is available upon request.

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