Adhesives

Technical Data Sheet

Acronal[®] LA 449 S

Chemical Nature	Aqueous polymer dispersion for the manufacture of pressure sensitive adhesives for self- adhesive articles			
	Aqueous dispersion of an acr by heating	ylate copolyme	r with carboxylic groups that can be cross	-linked
	Properties			
Typical Properties	Solids content pH value	%	~ 49.5 ~ 3.4	
	Apparent viscosity at 23 °C (Brookfield RVT, Spindle #2, 10	mPa s 0 rpm)	20 –100	
Other properties of	Density	g/cm³	approx. 1.06	
the dispersion	Average particle size	μm	approx. 0.5	
	Film-forming temperature	C	< 1 min.	
	Dispersion type		anionic	
Properties of the film	Density	g/cm³	approx. 1.0	
	Glass transition temperature Tg (DSC)	°C	approx. – 7	
	Water absorption (After immersion for 24 hrs)	%	approx. 16	
	Mechanical strength	N/mm	227	
	Elongation at break	%	approx. 1100	
	Appearance		clear, transparent	
	Stability to light		good	
	Surface slightly		tacky	

* These typical values should not be interpreted as specifications.

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We create chemistry

Compatible with

Polymer dispersions	Anionic dispersions and those containing protective colloids		
Thickeners	Collacral [®] VAL		
Resins	Modified natural resins; these can be added as solutions or dispersions.		
	The pH value must be adjusted to approx. 7 before adding resins.		
	* These typical values should not be interpreted as specifications.		
	Applications		
Features	Acronal [®] LA 449 S is used in the manufacture of pressure-sensitive adhesives for self-adhesive products. The adhesives adhere well to electrically treated polyolefin films and are used mainly for products with weak adhesion, e. g. protective films. As a rule, such products can be peeled off many different types of surface cleanly without ghosting. To enable this, comprehensive trials to establish their suitability are essential.		
Processing	Adhesives based on Acronal [®] LA 449 S can be applied with the usual coating systems.		
	It is recommended to raise the pH of Acronal [®] LA 449 S to 6.0 – 7.5 with ammonia solution before mixing it with other dispersions, to improve stability and compatibility. In the event of poor wetting, it is often helpful to add about 0.5 % of a wetting agent such as Lumiten [®] I-SC.		
	Commercially available antifoams such as Lumiten [®] E-L are suitable for suppressing foam. The exact amount of antifoam required must be determined in trials, though usually 0.05 – 0.2 % in the formulation is sufficient.		
	We recommend adding a preservative to adhesives that contain Acronal [®] LA 449 S to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.		
	Manufacturers must carry out their own comprehensive trials for developing pressure-sensitive adhesives based on Acronal [®] LA 449 S as, in manufacture and use, a host of factors come into play such as the compatibility of their components, the nature of different plastic films and the type of substrate onto which they are to be applied that we cannot cover exhaustively in out trials. When formulating adhesives for re-peelable films, particular attention is to be paid to the clean and easy detachment even after a long time of adhesion for all substrates that come in question.		
	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.		
Material Safety Data Sheet	All safety information is provided in the Material Safety Data Sheet Acronal $^{\otimes}$ LA 449 S.		
	Storage		
	Acronal [®] LA 449 S has a shelf life of six months from delivery date, provided it is stored in accordance		

Acronal[®] LA 449 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.

Important

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BASF Corporation 1609 Biddle Avenue Wyandote, Michigan 48192 Phone: (800) 231-7868 Email: polyorders@basf.com Email: edtech_info@basf.com www.basf.us/dpsolutions