

Acronal[®] 4034

Chemical Nature	A non-APEO containing acrylic dispersion used to manufacture pressure-sensitive adhesives for self-adhesives labels and tapes		
	Properties		
Typical Properties	Solids content pH value Viscosity at 23 °C (Brookfield RV, Spindle #3, at	% cps 50 rpm)	~ 60.0 ~ 7.5 100 – 350
Further properties of the dispersion	Density Average particle size Freeze/thaw resistance Dispersion type	g/cm³ µm	ca. 1.03 ca. 0,4 not resistant to freezing anionic
Properties of the film	Bulk density Glass transition temperature	g/cm³ °C Tզ (DSC)	ca. 1.05 ca33
	Water absorption	%	ca. 5 sion for 24 hrs)
	Appearance Stability to light Surface	(clear, transparent good highly tacky
Compatible with	*These figures should be taken for comparison purposes only. All that can be obtained from it is an idea of the magnitude concerned.		
Polymer dispersions	Anionic dispersions and those containing a protective colloid		
Thickeners	Rheovis® AS 1420, Rheovis® AS 1125		
Plasticizers	Palatinol [®] AH, C, Loxanol [®] PL 5060		
Resins	Modified and unmodified natural resins; these are added as solutions or dispersions		
Pigments	Adhesives can be colored with the water-dispersable Dispers [®] or Luconyl [®] preparations * These typical values should not be interpreted as specifications.		

Application

Acronal 4034 forms a film with good immediate tack and peel strength and exhibits low to moderate cohesion. It is used to manufacture pressure-sensitive adhesives for self-adhesive labels and tapes.

In addition to its good adhesive performance, Acronal 4034 is highly transparent, has only very light yellowing after storage at elevated temperatures, and shows good resistance to water absorption. It has exceptional adhesion on films such as PVC and polyester as well as on electrically pre-treated polyolefin film without primer. Acronal 4034 is readily modified with resin dispersions and resin solutions, enabling the grab and peel strength to be increased, especially on non-polar surfaces. This renders Acronal 4034 particularly suitable for permanent adhesive articles such as paper and plastic labels.

Processing When Acronal 4034 is to be mixed with another dispersion, the pH should be raised to 6 – 8 which increases the mechanical stability.

Adhesives based on Acronal 4034 can be applied to the carrier material with the usual coating systems; e. g., doctor blade, wire, air brush, reverse roll, reverse gravure, curtain and jet applicators. In the event of poor wetting, it is often helpful to add about 0.5 % of a wetting agent such as Lumiten[®] I-SC.

We recommend adding a preservative to adhesives and coating materials that contain Acronal 4034 to protect them from microbial attack, particularly if their pH lies in the neutral range. The suitability of such additives must be verified and monitored in trials.

Safety

GeneralThe 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 in

All safety information is provided in the Safety Data Sheet for Acronal 4034.

Important

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