

Acronal[®] DS 3502

Polymer dispersion used to manufacture packaging, laminating and flock-coating adhesives. This product can also be employed as a binder for acoustic compounds

Chemical Nature

Aqueous dispersion of an acrylic acid ester copolymer

Properties

Typical Properties

Solids	%	~ 55.0
pH		~ 7.5
Viscosity at 23 °C (Brookfield RV, Spindle #6, at 20 rpm)	cps	10,000 – 35,000

Other properties of the dispersion

Density at 23 °C	g/cm ³	approx. 1.09
Average particle size	µm	approx. 0.6
Film forming temperature	°C	< 1 min.
Type of dispersion		anionic
Freeze/thaw stability		not stable

Properties of the film

Density	g/cm ³	approx. 1.19
Glass transition temperature (DSC)	°C	approx 4
Mechanical Strength*		
Tensile strength	N/mm ²	approx. 0.15
Elongation at break	%	approx 1500
Appearance		clear, transparent
Stability to light		good
Surface		slightly tacky

Applications

Features

Acronal DS 3502 adheres well to a variety of different materials. It can be employed as an adhesive, or it can be added to other polymer dispersions, in order to boost their adhesion. It is used on the manufacture of adhesives for packaging, plastic to paper or board lamination, fabric lamination and flock coating. Acronal DS 3502 can also be used as a binder for acoustic compounds with maximum noise suppression in the 10 – 20 °C range.

Processing

Attention needs to be paid to the pH when Acronal DS 3502 is mixed with other polymer dispersions. The pH should be slightly alkaline. We would recommend adding preservatives to adhesives that contain Acronal DS 3502 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.

Customers have to carry out their own trials when developing and processing pressure-sensitive adhesives based on Acronal DS 3502. The compatibility of Acronal DS 3502 with other ingredients of formulations and its ability to wet and adhere to different substrates etc., are affected by a variety of factors which are too numerous for us to take into account in our own trials.

Safety

Safety Data Sheet

All safety information is provided in the Safety Data Sheets for Acronal DS 3502.

Important

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