

# Acronal<sup>®</sup> 3630

Acronal 3630 an APEO-free, aqueous adhesive dispersion used to manufacture pressure-sensitive adhesives for self-adhesives articles

## Chemical Nature

Acrylic copolymer dispersion containing carboxyl groups

### Properties

#### Typical Properties

Solids content	%	~ 60
pH		~ 7.5
Viscosity	mPa-s	~ 200-400

#### Other properties

Glass transition temperature T <sub>g</sub> (DSC)	°C	~ -35
Density	g/cm <sup>3</sup>	~ 1.04
Dispersion Type		Anionic
Freeze/Thaw Stability		Not Stable

\* These typical values should not be interpreted as specifications.

### Application

#### Advantages

Acronal 3630 exhibits excellent drying behavior as compared to conventional water based systems, allowing the production of articles with high coating weights. It exhibits excellent adhesion to low surface energy substrates combined with balanced peel, tack and cohesion, as well as excellent water resistance. The product has also been found to be suitable for numerous demanding roll label type applications.

#### Processing

Acronal 3630 is used in the manufacturing of adhesives for self-adhesive articles, especially for free films, double sided tapes and foam tapes. Dried films of Acronal 3630 feature excellent adhesive properties on polar and non-polar rigid and porous surfaces, combined with excellent cohesion power and are insensitive to water stress. The viscosity of Acronal 3630 can be increased significantly by raising the pH carefully up to 8.5. Acronal 3630 can be formulated for most conventional coating methods including roll coating, mayer rod, gravure, slot die and curtain type processes.

Compatibility is given with other polymer dispersions, natural and synthetic tackifiers and plasticizers (e. g. Loxanol<sup>®</sup> PL 5060 or Plastomol<sup>®</sup> DNA) as well as thickening agents (e. g. Rheovis<sup>®</sup> AS 1420 or Rheovis<sup>®</sup> AS 1125) and wetting agents (e. g. Lumiten<sup>®</sup> I-SC).

Commercially available antifoaming agents are suitable for suppressing foam. Usually the addition of 0.05 – 0.2 % of the antifoaming agent is sufficient.

We recommend adding a preservative to adhesives based on Acronal 3630 to protect them from microbial attack. The suitability of such additives must be verified and monitored in trials.

## 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 Acronal 3630.

---

## Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

---

## Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

*Acronal is a registered trademark of BASF Group.*

© BASF Corporation, 2022



BASF Corporation is fully committed to the Responsible Care® Initiative in the USA, Canada, and Mexico. For more information on Responsible Care® go to:  
U.S.: [www.basf.us/responsiblecare\\_usa](http://www.basf.us/responsiblecare_usa)  
Canada: [www.basf.us/responsiblecare\\_canada](http://www.basf.us/responsiblecare_canada)  
México: [www.basf.us/responsiblecare\\_mexico](http://www.basf.us/responsiblecare_mexico)

BASF Corporation  
Dispersions and Resins  
11501 Steele Creek Road  
Charlotte, North Carolina 28273  
Phone: (800) 251 – 0612  
CustCare-Charlotte@basf.com  
Email: [edtech\\_info@basf.com](mailto:edtech_info@basf.com)  
[www.basf.us/dpsolutions](http://www.basf.us/dpsolutions)