

Emulsions for Packaging and Converting Adhesives

Polyvinyl acetate (PVAc) and acrylic emulsions for packaging and converting adhesives



Emulsions designed to meet your needs

Celanese has supplied performance emulsions for quality adhesive products throughout the world. We offer a portfolio of emulsion products for paper packaging and converting applications designed to meet customers' varying needs.

Resyn® 1072 features excellent rewetting capabilities, making it optimal for re-moistenable adhesive applications such as envelope flap seals. Resyn SB-321, designed for general purpose packaging where borax compatibility is necessary, displays excellent water resistance and hydrophobicity. Resyn 1025 features a fast set speed for use in high-speed packaging applications.

With good water resistance and heat sealability, Resyn 1601 is ideal for heat sealing applications. X-LINK® 2873, best used in adhesive applications where low surface energy bonding is required, shows excellent plasticizer response and is freeze-thaw stable.

FLEXBOND® series of polymers

Celanese recently added the Flexbond® series of polymers to its packaging and converting adhesives portfolio. This series features low Tg polymers offering a variety of performance attributes that make them ideal for specialty packaging applications. Flexbond 95 features excellent water resistance and adheres extremely well to low surface energy substrates, making it ideal for lamination and high moisture packaging applications. It also dries to form a tough, flexible film that is low-temperature heat-sealable at 190°F. Flexbond 150 and 156 offer excellent compatibility with other emulsions and can be used as adhesion promoters when blended. Flexbond 150 has a high degree of tack with a good balance of peel and shear (pressure sensitive adhesive properties). This product lends itself well to bonding to low surface energy substrates. Flexbond 156 features lower tack and peel strength when compared against the Flexbond 150, but exhibits very high shear performance and some PSA properties, making it an excellent choice for flooring, carpet and tile applications.

Packaging and Converting

Product	Polymer Type	Protective Colloid	Solids	Viscosity (cps)	Tg (DSC °C)	Applications	Additional Features
Packaging and Converting							
Resyn 1072	PVAc	Dextrin	63.0	200-1500	+37	Designed as a base polymer for remoistenable adhesive applications, i.e. envelope flap seal	<ul style="list-style-type: none"> • High solids • Dextrin compatible • Excellent rewetting, remoistenability
Resyn SB-321	PVAc	HEC	54.0	1000-2000	+30	Designed as a base polymer for general-purpose packaging, where borax compatibility is required	<ul style="list-style-type: none"> • Excellent water resistance • Hydrophobic
Resyn 1025	PVAc	PVOH	54.5	850-1600	+30	Designed as a base polymer for high-speed packaging applications	<ul style="list-style-type: none"> • Fast speed of set • Good water resistance • Excellent plasticizer response
Resyn 1601	PVAc	PVOH	54.0	1800-2600	+30	Designed as a base polymer for heat sealing applications	<ul style="list-style-type: none"> • Heat sealable • Good water resistance
X-LINK 2873	Vinyl Acrylic	Surfactant	48.0	200-600	+36	Designed as a base polymer for adhesives for low surface energy bonding	<ul style="list-style-type: none"> • Self-crosslinking to improve strength and solvent resistance • Excellent adhesion to natural and low surface energy synthetic substrates
Flexbond 95	Styrene Acrylic	Surfactant	50.0	800-1500	-50	Lamination adhesive Packaging (film-to-paper/board, high moisture), glass bottle labeling	<ul style="list-style-type: none"> • Excellent water resistance • Excellent adhesion to metalized films and low-surface-energy substrates • Highest acrylic content
Flexbond 96	Styrene Acrylic	Surfactant	50.0	800-1500	-39	Lamination adhesive Packaging (film-to-paper/board, high moisture)	<ul style="list-style-type: none"> • Moderate acrylic content • Intermediate stiffness
Flexbond 97	Styrene Acrylic	Surfactant	50.0	1500-4500	-26	Lamination adhesive Packaging (film-to-paper/board, high moisture)	<ul style="list-style-type: none"> • Low acrylic content • Stiffest in the series
Flexbond 150	PVAc	Surfactant	55.0	350-850	-28	Base latex for laminating paper scrim and nonwovens	<ul style="list-style-type: none"> • Additive to improve quick-stick and low temp. peel strength • Good tack and peel properties, with moderate shear
Flexbond 156	Acrylic	Surfactant	55.0	50-300	-60	Flooring, carpet, tile adhesives High-speed coating applications	<ul style="list-style-type: none"> • High-shear resistance, plasticizer migration resistance and mechanical stability • PSA properties

EMULSION POLYMERS

Celanese.com/emulsion-polymers

Celanese

222 W. Las Colinas Blvd.
Irving, TX 75039

Technical Service:

t: 1-877-832-7782
e: EmulsionsTechService@Celanese.com

Customer Service:

1-800-845-0940

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