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.
### EMULSION POLYMERS

**Celanese.com/emulsion-polymers**

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### Packaging and Converting

<table>
<thead>
<tr>
<th>Product</th>
<th>Polymer Type</th>
<th>Protective Colloid</th>
<th>Solids</th>
<th>Viscosity [cP]</th>
<th>Tg (DSC °C)</th>
<th>Applications</th>
<th>Additional Features</th>
</tr>
</thead>
</table>
| Resyn 1072 | PVAc | Dextrin | 63.0 | 200-1500 | +37 | Designed as a base polymer for remoistenable adhesive applications, i.e. envelope flap seal | • High solids  
• Dextrin compatible  
• Excellent rewetting, remoistenableability |
| Resyn SB-321 | PVAc | HEC | 54.0 | 1000-2000 | +30 | Designed as a base polymer for general-purpose packaging, where borax compatibility is required | • Excellent water resistance  
• Hydrophobic |
| Resyn 1025 | PVAc | PVOH | 54.5 | 850-1600 | +30 | Designed as a base polymer for high-speed packaging applications | • 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 | • 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 | • 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 | • 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) | • Moderate acrylic content  
• Intermediate stiffness |
| Flexbond 97 | Styrene Acrylic | Surfactant | 50.0 | 1500-4500 | -26 | Lamination adhesive Packaging (film-to-paper/board, high moisture) | • Low acrylic content  
• Stiffest in the series |
| Flexbond 150 | PVAc | Surfactant | 55.0 | 350-850 | -28 | Base latex for laminating paper scrim and nonwovens | • 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 | • High-shear resistance, plasticizer migration resistance and mechanical stability  
• PSA properties |