



UCAR AW-875 Waterborne Vinyl Resin Dispersion

Description

UCAR™ AW-875 waterborne vinyl resin dispersion is an aqueous colloidal dispersion of solution polymerized vinyl resin. The polymer has both hydroxyl and carboxyl functionality, and is amine-neutralized.

This product is not intended for food contact applications.

Applications

Commercial applications for UCAR AW-875 waterborne vinyl resin dispersion include thermoplastic heat-seal and hot-laminating adhesives; flexo, gravure and screen inks; and coatings for plastics and metals.

Advantages

- Surfactant-free with little tendency to foam
- Compatible with other waterborne polymers, such as acrylics, alkyds, polyesters, urethanes, and amino resins.
- Solution-like drying behavior
- Excellent shear, emulsion, and hydrolytic stability
- Semi-dry films are more redispersible than those from typical latexes
- High glass transition temperature (T_g)
- Cosolvent-free
- Wide variety of coalescing solvents available to the formulator

Storage and Handling

Shelf life is greater than 1-year at 25°C., and greater than 9-months at 50°C. The Dow Chemical Company strongly encourages its customers to review the Material Safety Data Sheet (MSDS) on this product prior to its use. For further storage and handling information, consult Dow's brochure entitled, UCAR Waterborne Vinyl Resin Dispersion AW-875 for Inks, Coatings and Adhesives, Form. No. UC-1226.

Physical Properties⁽¹⁾

Molecular Weight	24,000
Hydroxyl Equivalent Weight	1005
Acid Number (on solids)	75
Glass Transition Temperature °C. (T _g , by DSC)	80
Particle Size, microns	0.08
Specific Gravity (on solids)	1.32
Weight per Gallon (as supplied), lb	9.13
pH	6.7 - 7.7
Freeze-Thaw Stability	Stable
Composition	
Solids, % by wt	39
Water, % by wt	61
Neutralant	DMEA
Viscosity, cP	160

(1) These data are typical values and cannot be construed as specifications. For product handling and safety aspects please refer to the Material Safety Data Sheet.

For further information contact:

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