RHOPLEX™ ECO-3482
Environmentally Advanced Binder

For Nonwoven and Textile Applications

Regional Product Availability

- North America

Description

RHOPLEX™ ECO-3482 is an environmentally-advanced, APE-free, ultra low formaldehyde acrylic emulsion that combines softness with the inherent durability of a self-crosslinking binder, without the associated formaldehyde emissions. This self-crosslinking binder has excellent color, combined with softness and wet durability.

Advantages

- APE-free
- Ultra low formaldehyde*
- Excellent wet tensile strength
- Very soft hand
- Excellent wash durability
- Self-crosslinking
- Good color and formulation stability
- Excellent runnability

*Ultra low formaldehyde: no formaldehyde or formaldehyde generators intentionally added.

Typical Properties

The following properties should not be considered specifications.

Ionic Nature	Anionic
Solids %	43
pH as packed	5.5
Brookfield Viscosity, cps	250
Glass Transition Temperature (Tg °C)	-27
Density, 25°C lbs/U.S. gallon	8.7
Specific Gravity	1.04

Application Properties

RHOPLEX™ ECO-3482 combines a very soft hand with tensile strength and durability. The following are typical laboratory test results comparing RHOPLEX™ ECO-3482 to RHOPLEX™ ST-954, a conventional self-crosslinking acrylic binder with a Tg of -23°C. This application was performed on wood pulp (Whatman #4 filter paper) with about 25% solids add-on. The samples were dried/cured at 150°C for 3 minutes in a laboratory Mathis oven.

The tensile strengths were tested in the cross-machine direction and are reported in kg/inch. For the wet and IPA strengths, the samples were soaked in water or IPA for 30 minutes before testing.

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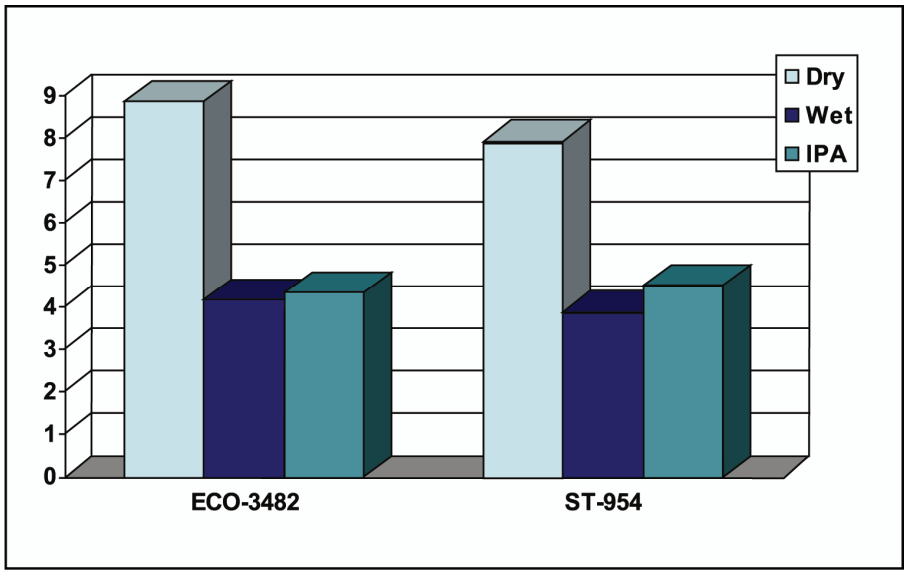
CD Tensile Strength, kg/inch



RHOPLEX™ ECO-3482 has similar performance to a conventional self-crosslinking binder without the associated formaldehyde emissions or residual formaldehyde in the final nonwoven.

Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Chemical Company Representative for more information.

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