

Technical Data Sheet

Tacolyn™ 5002 Resin Dispersion

Applications

- Adhesives/sealants-b&c
- Carpet construction
- Case & carton sealing closings
- Concrete
- Flooring
- Labels non food contact
- Paints & coatings
- Polymer modification
- Protective coatings
- Specialty tape
- Tape non food contact
- Waterborne packaging adhesives

Key Attributes

- APE-free
- Broad utility as a general purpose SBR tackifier
- Enhances specific adhesion to polyolefin substrates and recycled corrugated board
- Good moisture resistance
- Good thermal and UV stability
- Promotes cohesion

Product Description

Tacolyn™ 5002 resin dispersion is an aqueous, 55% solids, solvent-free, anionic hydrocarbon resin dispersion. It is recommended as a tackifier for natural rubber and styrene butadiene rubber latex polymers used in label, tape, construction, and contact adhesive applications. As a modifier for pressure sensitive label and tape adhesives, Tacolyn™ 5002 provides a good balance of peel and shear and enhances specific adhesion to polyolefin substrates and recycled corrugated board. Tacolyn™ 5002 is recommended for water-based contact adhesives where fast break properties are required as in foam to foam bonding applications.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Particle Size ^f		250 nm
Coarse Particles ^g		0.1000 % max
Ring and Ball Softening Point ^h	ASTM E 28	70 °C
Shelf Life		182 days
Total solids content		55 %
pH		10.5
pH Tolerance Range		>7
Viscosity ⁱ		400 cP
Density		1.01 g/mL

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnless noted otherwise, the test method is ASTM.

^cUnits are in SI or US customary units.

^fAverage particle size

^gWt% of particles > 45 microns

^hDispersed phase (base resin + emulsifier)

ⁱBrookfield, 25°C

Compatibility and Solubility

Compatible with acrylic, vinyl acetate-ethylene (VAE), polyvinyl acetate, styrene-butadiene rubber (SBR), polychloroprene (neoprene) and natural rubber latexes. When mixed with cationic substances, this dispersion may precipitate. When high alkaline or acidic additives are added to Tacolyn™ 5002, gross localized pH-variations

should be avoided, as these can lead to destabilization and grit formation.

Packaging

Available in lined fiber drums (445 lbs/202 kg net wt.), disposable totes or tank trucks. Keep container closed to prevent formation of dried film on container walls. If dry filming occurs, filter product before use.

Storage

The useful life of this product can be affected by storage and handling conditions. This dispersion will remain within product specification limits for at least 182 days from date of manufacture from an Eastman production facility provided that storage conditions are observed. The recommended storage temperature range is 50°-100°F. This resin dispersion may be irreparably damaged if frozen. Accordingly, all shipments in cold climate areas are made in insulated or heated carriers. It is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

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2/28/2018 11:35:39 AM

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