

Technical Data Sheet

Tacolyn™ 3400 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
- Direct food contact FDA clearances
- Excellent thermal and UV stability
- Good moisture resistance
- Promotes high temperature performance

Product Description

Tacolyn™ 3400 resin ester dispersion is an aqueous, 55% solids, solvent-free, anionic rosin ester dispersion prepared from a highly hydrogenated, high softening point resin. It is recommended for use in food packaging applications such as closures, lidding, and cold seal adhesives, as well as pressure sensitive adhesives that contact food. Tacolyn™ 3400 is also used in adhesives applications requiring higher temperature strength such as in high temperature masking tapes, packaging tapes, and contact adhesives.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Particle Size ^d		225 nm
Coarse Particles ^e		0.1000 % max
Ring and Ball Softening Point ^f	ASTM E 28	92 °C
Shelf Life		243 days
Total solids content		55 %
pH		10.0
pH Tolerance Range		>7
Viscosity ^g		1100 cP
Density		1.03 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.

^dAverage particle size

^eWt% of particles > 45 microns

^fDispersed phase (base resin + emulsifier)

^gBrookfield, 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™ 3400, 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 243 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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