

Technical Data Sheet

Tacolyn™ 3100 Resin Ester 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

- Excellent thermal and UV stability
- Good moisture resistance
- Light color
- Promotes high temperature performance
- Resistance to acids and alkalies

Product Description

Tacolyn™ 3100 resin ester dispersion is an aqueous, 55% solids, solvent-free, rosin ester dispersion prepared from the pentaerythritol ester of hydrogenated rosin. It is recommended as a tackifier for acrylic latex polymers used in label, tape, and construction applications including clear film label applications. Tacolyn™ 3100 is highly hydrogenated and promotes high temperature performance in waterborne PSAs.

Typical Properties

Property ^a	Test Method ^b	Typical Value, Units ^c
General		
Particle Size ^d		250 nm
Coarse Particles ^e		0.1000 % max
Ring and Ball Softening Point ^f	ASTM E 28	92 °C
Shelf Life		274 days
Total solids content		55 %
pH		10.0
pH Tolerance Range		4-13
Viscosity ^g		900 cP
Density		1.02 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™ 3100, 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 274 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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