

Technical Data Sheet

Tacolyn™ 5003 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
- Good moisture resistance
- Good thermal and UV stability
- Promotes cohesion
- Promotes high temperature performance

Product Description

Tacolyn™ 5003 resin dispersion is an aqueous, 45% solids, solvent-free, anionic hydrocarbon resin dispersion. It is recommended as a single tackifier for anionic polychloroprene latex polymers used in contact adhesive applications. When used as a modifier for contact adhesives, Tacolyn™ 5003 imparts outstanding high temperature performance, excellent contactability and good moisture resistance without the use of a second reinforcing tackifier.

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	130 °C
Shelf Life		274 days
Total solids content		45 %
pH		11.0
pH Tolerance Range		>7
Viscosity ^g		1000 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™ 5003, 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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