

Technical Data Sheet

Tacolyn™ 5070 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

- Broad utility as a general purpose isoprene and natural rubber tackifier
- Exhibits good storage and mechanical stability
- Highly resistant to acids and alkalies
- Promotes low peel

Product Description

Tacolyn™ 5070 resin dispersion is an aqueous, 50% solids, solvent-free anionic aliphatic hydrocarbon dispersion prepared from a low molecular weight, aliphatic C5 hydrocarbon resin. It is recommended as a tackifier for isoprene rubber and natural rubber latex polymers used in tape applications. Tacolyn™ 5070 is ideal for low peel applications because it imparts peel strength in small increments relative to resination level. It exhibits good storage and mechanical stability and outstanding stability to acids. Tacolyn™ 5070 is also highly resistant to acids and alkalies.

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	70 °C
Shelf Life		243 days
Total solids content		50 %
pH		4.0
pH Tolerance Range		4-13
Viscosity ^g		100 cP
Density		0.97 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 natural rubber latex. When mixed with cationic substances, this dispersion may precipitate. When high alkaline or acidic additives are added to Tacolyn™ 5070, 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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