EASTMAN

Technical Data Sheet

Staybelite™ Ester 3-E Ester of Hydrogenated Rosin

Applications

- Adhesives/sealants-b&c
- Bookbinding
- Caps & lids non-food contact
- Carpet construction
- Case & carton sealing closings
- Commerical printing inks
- Film modification
- Hygiene adhesives
- Labels non food contact
- Packaging component films
- Packaging components non food contact
- Packaging tape
- Paints & coatings
- Polymer modification
- Protective coatings
- Road markings
- Roofing ingredients
- Solder flux
- Solvent borne packaging adhesives
- Specialty tape
- Tape non food contact
- Tires
- Wax ingredients
- Wire/cable

Key Attributes

- Good resistance to oxidation and discoloration
- High viscous tackifier resin with excellent ageing characteristics
- Light color
- Low odor
- Wide solubility and compatibility range

Product Description

Staybelite™ Ester 3-E Ester of Hydrogenated Resin is a pale, viscous, balsamic liquid with the resistance to oxidation and discoloration characteristic of the Staybelite™ series of ester resins. It has found wide acceptance in hot-melt, pressure-sensitive, and laminating adhesives. In general, it finds use where there is a need for a pale, non-oxidizing, color-stable, highly tacky liquid resin.

Typical Properties

Property	Typical Value, Units
General	
Color, Gardner[a]	6
Acid Number (mg KOH/g)	8
Viscosity, Brookfield LVTD[b]	22000 mPa·s
Description, Base Resin	Ester of Hydrogenated Rosin

[a] *50% resin solids in toluene*
[b] *Spindle 31, 35°C*

Compatibility and Solubility

Liquid, tacky, highly adhesive; good resistance to oxidation and discoloration; readily emulsifiable; plasticizer for a wide range of film formers; widely soluble and compatible with other materials.

Compatible at all ratios, or in limited but practically useful proportions, with resins, waxes, plasticizers, and film formers such as natural and synthetic rubbers, chlorinated rubber, nitrocellulose, and ethylcellulose.

Soluble in esters, ketones, higher alcohols, glycol ethers, aliphatic and aromatic hydrocarbons, and chlorinated solvents. Insoluble in ethanol and water.

Solubility Parameters, 50% resin concentration. 7,0-11,1 in Class I solvents - weakly hydrogen-bonded; 7,4-10,6 in Class II solvents - moderately hydrogen-bonded; 9,5-11,9 in Class III solvents - strongly hydrogen-bonded.

Packaging

Staybelite™ Ester 3-E Ester of Hydrogenated Rosin is supplied in open-head steel drums with a net weight of 190 kg, on pallets containing 4 drums each, from Eastman production facilities in The Netherlands and from warehouses located in Europe.

Storage

Inside storage is recommended. Storage at temperatures above 30°C should be avoided.

Resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on the solubility of the resin in organic solvents or on its compatibility with polymers. Accordingly, it is recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first.

Staybelite™ Ester 3-E Ester of Hydrogenated Rosin material will remain within product specification limits, as mentioned under the heading "Product Specifications", for a period of at least twelve months after shipment from Eastman production facilities in The Netherlands, provided storage conditions outlined in this data sheet are observed.

However, as we can neither anticipate the conditions under which the resin is processed nor the end use applications for which it is used, we recommend that the material be tested upon receipt.

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