

Staybelite™ Ester 3-E Ester of Hydrogenated Rosin

Staybelite™ ester 3-E ester of hydrogenated gum rosin is a pale, viscous, balsamic liquid with the resistance to oxidation and discoloration characteristic of the Staybelite series of resins. The tacky, highly adhesive resin can be readily emulsified, and serves as plasticizer for a wide range of film formers.

Staybelite ester 3-E is broadly compatible with many other components, and 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.

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

Property	Typical Value	Unit	Method ¹
Description, Base Resin	Ester of Hydrogenated Gum Rosin		
Ring and Ball Softening Point	liquid		ASTM E 28
Color, Gardner	7		ASTM D 6166, 50% solids in toluene
Acid Number	8	mg KOH/g	ASTM D 465
Viscosity	23625	cP (mPa·s)	Brookfield LVTD at 35°C, spindle 31

¹ internal method based upon the specified norm

Applications

Caulks and Sealants, Roadmarking, Additives, Carpet, Additives, Packaging Inks, Correction fluids, Labels, Tapes, Metal coatings, Protective films, Asphalt and Road Construction, Waterproofings, Other adhesives, Solvent-borne resins, Speciality tapes, Wire and cable

Compatibility and Solubility

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 Synthomer 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.

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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 for a period of at least twelve months after shipment from Synthomer 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.

Comments

Properties reported here are typical of average lots. Synthomer makes no representation that the material in any particular shipment will conform exactly to the values given.