

Staybelite™ Resin-E Partially Hydrogenated Rosin

Staybelite™ resin-E partially hydrogenated rosin is a pale, thermoplastic, acidic resin made by partially hydrogenating rosin. Because of this treatment, Staybelite resin-E partially hydrogenated rosin is highly resistant to oxidation and discoloration, and to changes in solubility characteristics when it is exposed to air and sunlight.

- Color stability
- High acid number
- Light color
- Low odor
- Resistant to oxidation
- Wide solubility and compatibility range

Property	Typical Value	Unit	Method ¹
Description, Base Resin	Partially Hydrogenated Gum Rosin		
Ring and Ball Softening Point	70	°C	ASTM E 28
Softening Point	80	°C	Hercules drop method, Internal method
Color, Gardner	6		ASTM D 6166, 50% solids in toluene
Acid Number	158	mg KOH/g	ASTM D 465
Refractive Index at 100°C	1.5000		

¹ internal method based upon the specified norm

Applications

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

Compatibility and Solubility

Compatible with natural resins, rubber, and waxes; with drying and non-drying alkyds; blown castor oil; ethylcellulose; various synthetic elastomeric and thermoplastic polymers and copolymers.

Soluble in alcohols, esters, ketones, hydrocarbons, and chlorinated solvents. Insoluble in water.

Solubility Parameters, 50% resin concentration. 7,8- 9,5 in Class I solvents - weakly hydrogen-bonded; 7,4-10,6 in Class II solvents - moderately hydrogen-bonded; 9,5-12,7 in Class III solvents - strongly hydrogen-bonded.

Packaging

Staybelite™ resin-E partially hydrogenated rosin is pastillated and packed in polyethylene bags of 25 kg net, and supplied on shrink-wrapped pallets of 40 bags (1000 kg) each, from Synthomer facilities in the Netherlands and from warehouses located in Europe.

Storage

Due to the thermoplastic behavior, pastillated and flaked resins may fuse, block or lump. This can be accelerated under any of the following conditions: 1) above ambient temperature 2) prolonged storage 3) pressure, e.g., stacking pallets, or a combination of these conditions. This is particularly applicable for low softening point resin grades. In order to maintain the flake or pastille shape, we therefore recommend storing the material in a temperature-controlled area; be careful with stacking material or applying pressure and preventing prolonged storage. It should be noted that lumping does not have a negative impact on the product specifications. Due to the nature of the product, claims regarding lumping cannot be accepted.

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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™ resin-E partially hydrogenated rosin will remain within product specification limits for a period of at least twelve months after shipment from Synthomer's 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.