

# Foralyn™ E Partially Hydrogenated Rosin

FORALYN™ E Partially Hydrogenated Gum Rosin is a light colored, thermoplastic, acidic resin made by partially hydrogenating rosin. Because of this treatment, FORALYN E is highly resistant to oxidation and discoloration, and to changes in solubility characteristics when it is exposed to air and sunlight. Thermoplastic properties of FORALYN™ E make it particularly valuable as a plasticizer, tackifier or processing aid for reclaimed, natural, and synthetic rubbers. FORALYN E is also suggested for the preparation of synthetic resins, pigment coatings, soldering fluxes and caulking compounds.

- Color stability
- Exceptionally light color
- High acid number
- Resistant to oxidation
- Wide solubility and compatibility range

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method <sup>1</sup>
Description, Base Resin	Partially Hydrogenated Gum Rosin		
Ring and Ball Softening Point	71	°C	ASTM E 28
Color, Gardner	1		ASTM D 6166
Acid Number	165	mg KOH/g	ASTM D 465
Refractive Index (@ 100°C)	1.4983		

<sup>1</sup> internal method based upon the specified norm

## Applications

Caulks and Sealants, Roadmarking, Packaging specialties, Carpet, Labels, Tapes, Other coatings, Other adhesives, Speciality tapes, Wire and cable, Assembly, Packaging, Graphic inks, Film Modification, Plastic Modification, Roofing, Adhesives

## 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 esters, ketones, hydrocarbons, 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

FORALYN™ 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's 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.

FORALYN™ E Partially Hydrogenated Rosin material 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.