

# Technical Data Sheet

## Foralyn™ 5020-F Ester of Hydrogenated Rosin

### Applications

- Adhesives/sealants-b&c
- Bookbinding
- Caps & lids non-food contact
- Carpet construction
- Case & carton sealing closings
- Commerical printing inks
- Depilatories ingredients
- Film modification
- Fragrance ingredients
- 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
- Specialty tape
- Tape non food contact
- Tires
- Wax ingredients
- Wire/cable

### Key Attributes

- Excellent fixative
- Exceptional cutaneous tolerance
- Liquid tackifier and plasticizer resin with excellent ageing characteristics
- Low color
- Low odor
- Wide solubility and compatibility range

### Product Description

Foralyn™ 5020-F Ester of Hydrogenated Rosin, the methyl ester of hydrogenated rosin, is a light amber liquid resin. Being hydrogenated, it has marked resistance to aging. To assure minimum odor of products in which it is used, it is given a special steam-sparging treatment. Foralyn™ 5020-F Ester of Hydrogenated Rosin is used as a resinous plasticizer or tackifier in finished products such as adhesives, inks, and lacquers.

### Typical Properties

Property	Test Method	Typical Value, Units
<b>General</b>		
Ring and Ball Softening Point	ASTM E 28	Liquid
Color, Gardner <sup>a</sup>		3
Acid Number (mg KOH/g)		6
Viscosity, Brookfield <sup>b</sup> @ 25°C		5400 cP
Saponification Number		160 mg KOH/g
Refractive Index @ 20°C		1.5189
Density @ 25°C		1.03 kg/dm <sup>3</sup>
Flash Point Cleveland Open Cup		>170 °C
Description, Base Resin		Hydrogenated Gum Rosin

<sup>a</sup>As is (Neat resin)

<sup>b</sup>Brookfield LVTD, spindle 31

## Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with nitrocellulose; ethylcellulose; chlorinated rubber; polyvinyl chloride; vinyl acetate-chloride copolymers; polyvinyl ethers; such water-soluble film-formers as casein and starch; natural and synthetic resins and rubber; asphalt; and waxes. Incompatible with cellulose acetate and polyvinyl acetate.

Soluble in esters, ketones, alcohols, ethers, coal tar, petroleum hydrocarbons, and vegetable and mineral oils. Insoluble in water. Solubility Parameters, 50% resin concentration: 7,0-11,8 in Class I solvents - weakly hydrogen-bonded; 7,4-11,3 in Class II solvents - moderately hydrogen-bonded; 9,5-12,7 in Class III solvents - strongly hydrogen-bonded.

## Packaging

Foralyn™ 5020-F Ester of Hydrogenated Rosin is supplied in tight head drums, on pallets containing 4 drums each, from Eastman production facilities in The Netherlands and from warehouses located in Europe.

## Storage

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, inside storage and "first in first out" inventory control is recommended. Recommended storage: in original packaging, dry, free from contamination, below 30°C.

Foralyn™ 5020-F Ester of Hydrogenated Rosin material will remain within product specification limits for a period of at least twelve months after shipment from Eastman production facilities in The Netherlands, provided recommended storage conditions 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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