Foralyn™ 5020-F Ester of Hydrogenated Rosin

FORALYN™ 5020-F Ester of Hydrogenated Gum 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 is used as a resinous plasticizer or tackifier in finished products such as adhesives, inks, and lacquers.

- Excellent fixative
- Exceptional cutaneous tolerance
- Liquid tackifier and plasticizer resin with excellent ageing characteristics
- Low color
- Low odor
- 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[1]
Description, Base Resin	Methyl Ester of Hydrogenated Gum Rosin		
Ring and Ball Softening Point	Liquid		ASTM E 28
Color, Gardner	3 Neat		ASTM D 6166
Acid Number	6	mg KOH/g	ASTM D 465
Saponification Number	160	mg KOH/g	
Density at 25°C	1.03	kg/dm³	
Viscosity, Brookfield at 25°C	5860	cP (mPa·s)	
Refractive Index at 20°C	1.5189		
Flash Point (Cleveland Open Cup)	>170	°C	

[1] internal method based upon the specified norm

Applications

Caulks and Sealants, Assembly, Packaging specialities, Carpet, Packaging, Graphic inks, Film Modification, Labels, Other coatings, Plastic Modification, Roadmarking, Roofing, Other adhesives , Speciality tapes, Tapes, Tire components, Wax Modification, Wire & Cable, Food Additives

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 Synthomer 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 Synthomer 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.

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.