

Technical Data Sheet

Abalyn™ D-E Methyl Ester of Rosin

Applications

- Adhesives/sealants-b&c
- Adjuvants
- Bookbinding
- Caps & lids non-food contact
- Carpet construction
- Case & carton sealing closings
- Commerical printing inks
- Film modification
- 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

- Alcohol-soluble
- Excellent perfume fixative
- Excellent surface wetting and adhesion properties
- Excellent wood preservative
- Insoluble in water
- Liquid tackifier and plasticizer resin for a wide variety of raw materials and polymers

Product Description

Abalyn™ D-E Methyl Ester of Rosin, is an amber-colored, near-neutral, tacky, viscous liquid. It is resinous in nature with clarity and high refractive index, low vapor pressure, high boiling point, and good thermal stability. It has excellent surface-wetting properties. These physical properties, plus its wide compatibility, make it useful in a variety of applications, including lacquers, inks, paper coatings, varnishes, adhesives, sealing compounds, plastics and wood preservatives. To assure minimum odor of products in which it is used, it is given a special steam sparging treatment.

Typical Properties

Property	Typical Value, Units
General	
Color, Gardner ^a	4
Acid Number (mg KOH/g)	5
Viscosity, Brookfield ^b @ 25°C	4700 cP
Saponification Number	158 mg KOH/g
Refractive Index @ 20°C	1.5300
Density @ 25°C	1.04 kg/dm ³
Flash Point	>170 °C
Description, Base Resin	Rosin

^aAs is (Neat resin)

Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with nitrocellulose, ethylcellulose, chlorinated rubber, and most other film-formers; with water-soluble film-formers such as starch, casein, and glue; with natural and synthetic rubbers, natural and synthetic resins, waxes, and asphalt. 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: 7.0-11.1 in Class I solvents - weakly hydrogen-bonded; 7.4-12.0 in Class II solvents - moderately hydrogen-bonded; 9.5-12.7 in Class III solvents - strongly hydrogen-bonded.

Packaging

Abalyn™ D-E Methyl Ester of Rosin is supplied in 200 kg open-head steel drums, on pallets containing 4 drums each, from Eastman production facilities in The Netherlands and from warehouses located in Europe.

Storage

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

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.

Shelf life: Abalyn™ D-E Methyl Ester of Rosin material will remain within product specification limits for a period of at least twelve months after shipment from Eastman's 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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