

Technical Data Sheet

Abitol™ E Hydroabietyl Alcohol

Applications

- Adhesives/sealants-b&c
- 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
- High refractive index
- High viscous tackifier resin with excellent ageing characteristics
- Light color
- Low odor
- Reactive functionality
- Wide solubility and compatibility range

Product Description

Abitol™ E Resin hydroabietyl alcohol is a colorless, tacky, balsamic resin. Its tackiness and extremely pale color, combined with its solubility in common organic solvents and compatibility with resins, film-formers, and oils, have led to its use as a resinous plasticizer and/or tackifier in plastics, lacquers, inks and adhesives. Chemically, Abitol™ E Resin is a high molecular weight, primary, monohydric alcohol derived from rosin acids that have been hydrogenated to reduce unsaturation. Abitol™ E Resin undergoes the general types of chemical reaction common to most primary alcohols.

Typical Properties

Property	Typical Value, Units
General	
Ring and Ball Softening Point	Liquid
Color, Gardner	1 - Neat Molten
Color, Hunterlab b ^b	2
Acid Number (mg KOH/g)	0.1
Hydroxyl Number	4.7 %
Saponification Number ^a	22 mg KOH/g
Hydroabietyl Alcohol	81 %
Refractive Index	
@ 100°C	1.4950
@ 20°C	1.5245
Specific Gravity	
@ 25°C/25°C	1.008
Melt Viscosity	
@ 50°C	6500 cP

@ 60°C	1500 cP
@ 80°C	160 cP
Description, Base Resin	Hydrogenated Gum Rosin

^aRosin based

^b5 cm path length, 50% in toluene; Illuminant C, 2 degree observer

Compatibility and Solubility

Compatible at all ratios, or in limited but practically useful proportions, with nitrocellulose, ethylcellulose, melamine- and urea-formaldehyde resins, polyethylene, shellac and carnauba wax. Limited compatibility with casein, polymethyl methacrylate, polyvinyl acetate chloride, polyvinyl butyral, natural rubber, synthetic rubber. Incompatible with cellulose acetate, cellulose acetate butyrate, polystyrene and zein.

Soluble in alcohols, esters, ketones, chlorinated solvents, and aliphatic, aromatic, or terpene hydrocarbons. Insoluble in water. Solubility parameters, 50% resin concentration: 7,0-10,6 in Class I solvents - weakly hydrogen-bonded; 7,4-11,3 in Class II solvents - moderately hydrogen-bonded; 9,5-14,5 in Class III solvents - strongly hydrogen-bonded.

Packaging

Abitol™ E Hydroabietyl Alcohol is supplied in 190 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. Storage at temperatures above 30°C should be avoided. 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.

Abitol™ E Hydroabietyl Alcohol material will remain within product specification limit for a period of at least twelve months after shipment from Eastman'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.

Eastman and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

2/28/2018 11:35:39 AM