

Technical Data Sheet

Eastman™ SAIB-100 (Sucrose Acetate Isobutyrate)

Chemical Synonym

INCI: Sucrose Acetate Isobutyrate

Applications

- Commerical printing inks
- Consumer electronics
- Paints & coatings
- Personal care ingredients
- Wire/cable

Product Description

Eastman™ SAIB-100 (sucrose acetate isobutyrate) is an odorless and tasteless, thermally stable, viscous liquid. It has very light color (less than 1, Gardner color scale). It is produced by the controlled esterification of sucrose, a natural sugar, with acetic and isobutyric anhydrides. The electrical properties of Eastman™ SAIB are equal to or better than those of many widely-used plasticizers and it possesses an especially high volume resistivity. It also has good thermal hydrolytic stability making it useful in surface coatings and electrical insulation.

Typical Properties

Property	Typical Value, Units
General	
Molecular Weight	832-856
Specific Gravity @ 25°C/25°C	1.146
Wt/Vol	1.14 kg/L (11.46 lb/gal (Imperial))
Flash Point Cleveland Open Cup	260 °C (500 °F)
Appearance	Free from insoluble matter or haze
Color Pt-Co	200 max.
Color, Gardner	1
Onset of Decomposition @ 760mm	215 °C
Heat Test Color ^a 24 hr @ 177°C	10 max.
Haze ^b	1 ppm
Refractive Index	1.454 n(20°C/D)
Acid Number (mg KOH/g)	0.2 max.
Dissipation Factor 1 MHz	1.46
Dielectric Constant 1 MHz	3.2
Dielectric Strength	0.35 kv/mil
Saponification Equivalent	104-107
Specific Heat	
@ 100°C	0.4 cal/g·°C
@ 125°C	0.42 cal/g·°C
@ 150°C	0.43 cal/g·°C

@ 175°C	0.44 cal/g·°C
@ 75°C	0.38 cal/g·°C
Viscosity, Brookfield	
@ 100°C	105 cP
@ 160°C	16 cP
@ 30°C	100000 cP

^aGardner scale

^bPt-Co standard

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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