

Technical Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-381-0.1), Food Contact

Applications

- Commerical printing inks
- Flexographic printing inks
- Food can coatings internal
- Graphic arts
- Gravure printing inks
- Inkjet printing inks
- Inks
- Labels - food packaging - food contact
- Overprint varnishes
- Pack & carton coatings
- Packaging inks food contact
- Screen printing inks
- Tape - food packaging - food contact

Product Description

Eastman Cellulose Acetate Butyrate (CAB 381-0.1, Food Contact) is a cellulose ester with medium butyryl content and low viscosity. It was designed for use where low-application viscosities at relatively high solids levels are needed. It is soluble in a wide range of solvents and compatible with many other resins. When dissolved in appropriate solvents selected for CAB-381-0.1, Food Contact, a clear, colorless solution is produced. It will also tolerate the use of solvent blends currently exempt from certain air pollution regulations. It is supplied as a dry, free-flowing powder.

Eastman CAB-381-0.1, Food Contact is based on cellulose, one of the most abundant natural renewable resources, from trees harvested from sustainably managed forests. The calculated approximate bio-content value of 41% for Eastman CAB-381-0.1, Food Contact was determined by using six bio-based carbon atoms per anhydroglucose unit divided by the total number of carbons per anhydroglucose unit. Although the value reported is not specifically measured for bio-carbon, it can be estimated based on typical partition data.

This product is manufactured, stored, handled and transported by Eastman under conditions adhering to current Good Manufacturing Practices for food contact applications. This product meets requirements for use in certain food contact applications under regulations of the U.S. Food and Drug Administration (21 CFR), European Commission (Regulation 10/2011) and the Swiss Ordinance on Materials & Articles in Contact with Food (SR 817.023.21). Contact your Eastman representative or authorized Eastman distributor for specific regulatory compliance documentation.

For applications that do not require food contact compliance, please refer to Eastman CAB-381-0.1.

Typical Properties

Property	Typical Value, Units
General	
Viscosity ^a	
s	0.1
Poise	0.38
Acetyl Content	13 wt %
Butyryl Content	37 wt %
Hydroxyl Content	1.5 %

T _g ^b	123 °C
Melting range	155-165 °C
Bulk Density	
Poured	458.1 kg/m ³ (28.6 lb/ft ³)
Tapped	544.5 kg/m ³ (34 lb/ft ³)
Specific Gravity	1.2
Acidity	
as Acetic Acid	0.03 wt %
Ash Content	<0.01 %
Refractive Index	1.48
Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Tukon Hardness	18 Knoop
Heat Test	
@ 160°C for 8 hr	Tan melt
Wt/Vol	
(Cast Film)	1.2 kg/L (10.0 lb/gal)

^aViscosity determined by ASTM Method D 1343. Results converted to poises (ASTM Method D 1343) using the solution density for Formula A as stated in ASTM Method D 817 (20% Cellulose ester, 72% acetone, 8% ethyl alcohol).

^bGlass Transition Temperature

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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