

Technical Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-551-0.2), Food Contact

Applications

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

Product Description

Eastman Cellulose Acetate Butyrate (CAB-551-0.2, Food Contact) is a cellulose ester with high butyryl content and relatively low molecular weight. It is compatible with numerous cross-linking resins and has a lower solution viscosity. In coatings, Eastman CAB-551-0.2, Food Contact gives clear films, reduces surface tack and mottling, minimizes cratering, improves flow and thermal reflow, and provides inter coat adhesion and good UV stability. It is useful for durable cross-linked formulations. Its good compatibility with a wide range of curing resin systems and its solubility in a wide variety of solvents and solvent combinations make it useful as an additive in numerous coating compositions. When CAB-551-0.2, Food Contact is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAB-551-0.2, 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 37% for Eastman CAB-551-0.2, 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-551-0.2.

Typical Properties

Property	Typical Value, Units
General	
Viscosity ^a	
s	0.2
Poise	0.76
Acetyl Content	2 wt %
Butyryl Content	52 wt %
	1.8 %

Hydroxyl Content	
Moisture Content	3.0 max %
Tg ^b	101 °C
Melting range	130-140 °C
Bulk Density	
Poured	515 kg/m ³ (32 lb/ft ³)
Tapped	612 kg/m ³ (38 lb/ft ³)
Specific Gravity	1.16
Acidity	
as Acetic Acid	0.02 wt %
Ash Content	<0.05 %
Refractive Index	1.475
Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Tukon Hardness	15 Knoops
Wt/Vol	1.16 kg/L (9.67 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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