EASTMAN

Technical Data Sheet

Eastman™ Cellulose Acetate (CA-398-3), Food Contact

Applications

- Commerical printing inks
- 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

Product Description

Eastman Cellulose Acetate (CA-398-3, Food Contact) is one of the lower viscosity solution grades of cellulose acetate. The average ASTM viscosity of CA-398-3, Food Contact is 3 seconds. Eastman CA-398-3, Food Contact is supplied in the form of a fine, dry, free-flowing powder. This multipurpose rheology enhancer, provides high strength and good resistance to ultraviolet light, heat, oils and greases. It is used in lacquers for glass, plastic, wire and release coatings. It may be blended with appropriate solvents, plasticizers, and other modifying resins to formulate coatings for paper, glass, plastic, wire screen, and electrical wiring. When CA-398-3, Food Contact is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAB-398-3, 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 55% for Eastman CA-398-3, Food Contact was determined by using six bio-based carbon atoms per anhyroglucose unit divided by the total number of carbons per anhyroglucose 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-398-3.

Typical Properties

Property	Typical Value, Units
General	
Viscosity[a]	
s	3
Poise	11.4
Acetyl Content	39.8 wt %
Hydroxyl Content	3.5 wt %
Moisture Content	3.0 max %
Tg[b]	180 °C
Melting range	230-250 °C
Bulk Density	

Poured	320 kg/m^3 (20 lb/ft^3)
Tapped	400 kg/m^3 (25 lb/ft^3)
Specific Gravity	1.31
Acidity as Acetic Acid	0.1 wt % max.
Ash Content	0.05 %
Refractive Index	1.475
Dielectric Strength	669 kv/cm (1.7 kv/mil)
Tukon Hardness	26 Knoops
Combined Acetic Acid Content	55.5 %
Wt/Vol	1.31 kg/L (10.9 lb/gal)

[a]*Viscosity 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).*
[b]*Glass 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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