EASTMAN

Technical Data Sheet

Eastman™ Cellulose Acetate Propionate (CAP-504-0.2), Food Contact

Applications

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

Product Description

Eastman Cellulose Acetate Propionate (CAP-504-0.2, Food Contact) is a free-flowing powder having low odor, low color, and high hydroxyl content. It is fast dissolving, has good water tolerance and resistance to souring, and is compatible with many ink resins and solvents. It has good resistance to discoloration from UV light and has good adhesion to plastics. It has a low viscosity (0.2 seconds) and has an approximate propionyl content of 42.5 wt%. When CAP-504-0.2 Food Contact is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAP-504-0.2, 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 49% for Eastman CAP-504-0.2, 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 CAP-504-0.2.

Typical Properties

Property	Typical Value, Units
General	
Viscosity[a]	
s	0.2
Poise	0.76
Acetyl Content	0.5 wt %
Propionyl Content	42.5 wt %
Hydroxyl Content	5 wt %
Moisture Content	3.0 max %
Tg[b]	159 °C
Melting range	188-210 °C

Specific Gravity	1.26
Tukon Hardness	20 Knoops
Wt/Vol	1.26 kg/L (10.53 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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