

Technical Data Sheet

Applications

- Apparel
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Automotive
- Automotive parts & accessories
- Automotive protective coatings
- Commerical printing inks
- Compensation film
- Consumer electronics
- Formulators
- Fugitive binder
- General industrial coatings
- Graphic arts
- Industrial maintenance
- Inkjet printing inks
- Inks
- Leather coatings
- Metal coatings
- Non-medical housings & hardware for elec
- Packaging coatings non food contact
- Packaging inks non food contact
- Paints & coatings
- Photographic imaging film
- Process additives
- Process solvents
- Protective coatings
- Solar panels
- Specialty tape
- Water treatment industrial
- Wood coatings

Product Description

Eastman Cellulose Acetate Butyrate (CAB-500-5) is a cellulose ester with high butyryl content, low hydroxyl content and medium ASTM(A) viscosity. It offers a wide range of solubility and compatibility. It is tolerant of nonpolar aliphatic and aromatic hydrocarbons. It produces a relatively soft, flexible film requiring little or no plasticizer in many applications. When CAB-500-5 is dissolved in appropriate solvents a clear, colorless solution is produced. Eastman CAB-500-5 is supplied as a dry, white free-flowing powder and is convenient to handle.

Eastman CAP-500-5 is based on cellulose, one of the most abundant natural renewable resources. The calculated approximate bio-content value of 37% for Eastman CAB-500-5 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.

Typical Properties

Property	Typical Value, Units
General	
Viscosity ^a	
s	5
Poise	19

Acetyl Content	3 wt %
Butyryl Content	51 wt %
Hydroxyl Content	1 wt %
Moisture Content	3.0 max %
Tg ^b	96 °C
Bulk Density	
Poured	400 kg/m ³ (25 lb/ft ³)
Tapped	512 kg/m ³ (32 lb/ft ³)
Specific Gravity	1.18
Acidity	
as Acetic Acid	0.03 wt %
Ash Content	0.05 %
Refractive Index	1.475
Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Tukon Hardness	14 Knoop
Wt/Vol	
(Cast Film)	1.18 kg/L (9.83 lb/gal)
Heat Test	
@ 160°C for 8 hr	Tan melt

^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.

Eastman and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

9/19/2022 10:28:02 AM