EASTMAN

Technical Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-500-5)

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, from trees harvested from sustainably managed forests. The calculated approximate bio-content value of 37% for Eastman CAB-500-5 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.

Typical Properties

Property	Typical Value, Units
General	

Viscosity[a]	
s	5
Poise	19
Acetyl Content	3 wt %
Butyryl Content	51 wt %
Hydroxyl Content	1 %
Moisture Content	3.0 max %
Tg[b]	96 °C
Melting range	165-175 °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 Knoops
Wt/Vol	
(Cast Film)	1.18 kg/L (9.83 lb/gal)
Heat Test	
@ 160°C for 8 hr	Tan melt

[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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