

Technical Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-381-2 BP)

Applications

- Auto oem
- Auto plastics
- Auto refinish
- Automotive
- Coil coatings-appliances
- Commerical printing inks
- Consumer electronics
- Graphic arts
- Gravure printing inks
- Motorcycles
- Non-medical housings & hardware for elec
- Truck/bus/rv
- Wood coatings

Product Description

Eastman Cellulose Acetate Butyrate (CAB-381-2BP) grade ester is a slight modification of the standard CAB-381-2 cellulose acetate butyrate and has a higher hydroxyl and acetyl content and lower butyryl content. The BP grade was designed primarily to meet the needs of European formulators. When CAB-381-2BP is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAB-381-2BP 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 41% for Eastman CAB-381-2BP 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	2
Poise	8
Acetyl Content	14.5 wt %
Butyryl Content	35.5 wt %
Hydroxyl Content	1.7 %
Moisture Content	3.0 max %
T _g ^b	133 °C
Melting range	175-185 °C
Bulk Density	
Poured	416 kg/m ³ (26 lb/ft ³)
Tapped	480 kg/m ³ (30 lb/ft ³)
Specific Gravity	1.2
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	18 Knoop
Wt/Vol (Cast Film)	1.2 kg/L (10.0 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.

9/27/2019 4:41:08 PM