

Technical Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-171-15)

Applications

- Ace machinery & equipment
- Aerospace coatings
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Automotive protective coatings
- Coil coatings
- Commerical printing inks
- Compensation film
- Flexographic printing inks
- General industrial coatings
- Graphic arts
- Industrial maintenance
- Inkjet printing inks
- Leather coatings
- Metal coatings
- Non-medical housings & hardware for elec
- Pack & carton coatings
- Packaging coatings non food contact
- Paints & coatings
- Paper coatings non-food grade
- Photographic imaging film
- Polymer modification
- Process additives
- Protective coatings
- Strapping
- Tac film
- Truck/bus/rv
- Water treatment industrial
- Wood coatings

Product Description

Eastman Cellulose Acetate Butyrate CAB 171-15 has the lowest butyryl content and the lowest degree of solubility in the series of Eastman cellulose esters product line. It is soluble in low molecular weight ketones, chlorinated hydrocarbons, and nitroparaffins. When CAB-171-15 is dissolved in appropriate solvents a clear, colorless solution is produced.

Films prepared from CAB-171-15 offer superior toughness and hardness as compared with films prepared from other mixed esters. Also coatings based on CAB 171-15, which has less solubility and compatibility than the higher butyryl CABs, usually offer excellent resistance to chemicals, oils, and greases.

It is supplied in dry, powder form.

Eastman CAB-171-15 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 46% for Eastman CAB 171-15 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	19
Poise	57.37
Acetyl Content	29 wt %
Butyryl Content	18 wt %
Hydroxyl Content	1.1 %
Moisture Content	3.0 max %
T _g ^b	161 °C
Melting range	230-240 °C
Bulk Density	
Poured	224 kg/m ³ (14 lb/ft ³)
Tapped	256 kg/m ³ (16 lb/ft ³)
Specific Gravity	1.26
Acidity	
as Acetic Acid	0.0325 wt %
Ash Content	0.05 %
Refractive Index	1.475
Dielectric Strength	784-984 kv/cm (2-2.5 kv/mil)
Tukon Hardness	27 Knoops
Wt/Vol	1.26 kg/L (10.5 lb/gal)

^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.

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