EASTMAN

Technical Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-553-0.4)

Applications

- Aerospace coatings
- Architectural coatings
- Auto oem
- Auto refinish
- Automotive
- Automotive parts & accessories
- Commerical printing inks
- Consumer electronics
- Cosmetic ingredients - nails
- Flexographic printing inks
- General industrial coatings
- Graphic arts
- Gravure printing inks
- Industrial maintenance
- Metal coatings
- Non-medical housings & hardware for elec
- Overprint varnishes
- Photographic imaging film
- Screen printing inks
- Truck/bus/rv
- Wood coatings

Product Description

Eastman Cellulose Acetate Butyrate (CAB-553-0.4) is soluble in low molecular weight alcohols (methanol, ethanol, isopropanol, and n-propanol) as well as other common organic solvents. It has a high hydroxyl content (4.8 wt. %, average), which contributes to its alcohol solubility. The hydroxyl group is reactive and may be crosslinked with urea formaldehydes, melamines, and polyisocyantes. When CAB-553-0.4 is dissolved in appropriate solvents a clear, colorless solution is produced. Films of CAB-553-0.4 are colorless and have good ultraviolet stability, maintaining their low color over long periods of time. Eastman Cellulose Acetate Butyrate (CAB-553-0.4) is supplied as a dry, free-flowing powder, offering formulation convenience, ease of handling and maximum formulating flexibility.

Eastman CAB-553-0.4 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-553-0.4 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.

For applications that require food contact compliance, please refer to Eastman CAB-553-0.4, Food Contact.

Typical Properties

Property	Typical Value, Units
General	
Viscosity[a]	
s	0.3
Poise	1.14
Acetyl Content	2.0 wt %
Butyryl Content	47 wt %

Hydroxyl Content	4.8 %
Moisture Content	3.0 max %
Tg[b]	136 °C
Melting range	150-160 °C
Specific Gravity	1.20
Tukon Hardness	18 Knoops
Wt/Vol	1.20 kg/L (10.00 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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