EASTMAN

Technical Data Sheet

Applications

- Auto oem
- Auto plastics
- Auto refinish
- Automotive
- Automotive parts & accessories
- Automotive protective coatings
- Commerical printing inks
- Consumer electronics
- Consumer housewares-nfc
- General industrial coatings
- Graphic arts
- Industrial electronics
- Industrial maintenance
- Metal coatings
- Non-medical housings & hardware for elec
- Paints & coatings
- Process additives
- Protective coatings
- Small appliances non-food contact
- Truck/bus/rv
- Wood coatings

Product Description

Eastman Cellulose Acetate Butyrate (CAB-381-20BP), 100% grade ester is a slight modification of the standard CAB-381-20 cellulose acetate butyrate and has a lower viscosity. The BP grade was designed primarily to meet the needs of European formulators. When CAB-381-20BP is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAB-381-20BP is based on cellulose, one of the most abundant natural renewable resources. The calculated approximate bio-content value of 41% for Eastman CAB-381-20BP 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	16
Poise	20.8
Acetyl Content	15.5 wt %
Butyryl Content	35.5 wt %
Hydroxyl Content	0.8 %
Moisture Content	3.0 max %
Tg[b]	128 °C
Bulk Density	
Poured	336 kg/m^3 (21 lb/ft^3)
Tapped	432 kg/m^3 (27 lb/ft^3)
Specific Gravity	1.2

Acidity as Acetic Acid	0.03 wt % max.
Ash Content	0.05 %
Refractive Index	1.475
Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Tukon Hardness	18 Knoops
Wt/Vol (Cast Film)	1.2 kg/L (10.0 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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