

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 biobased 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

as Acetic Acid0.03 wt % max.Ash Content0.05 %Refractive Index1.475	
Ash content	
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	

^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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