



Product Data Sheet

Eastman Cellulose Acetate Butyrate (CAB-500-5)

Application/Uses

- Automotive OEM
- Coatings for Automotive Plastics
- Coatings for plastic
- Coatings
- Inks
- Lacquers for automotive
- Lacquers for leather
- Lacquers for paper
- Lacquers for plastic
- Lacquers
- Printing Inks

Product Description

Eastman Cellulose Acetate Butyrate (CAB-500-5) is a cellulose ester with high butyryl content, low hydroxyl content and medium ASTM(A) viscosity. CAB-500-5 offers a wide range of solubility and compatibility. It is tolerant of nonpolar aliphatic and aromatic hydrocarbons. It produces a relatively soft, flexible film requiring little or no plasticizer in many applications. *Eastman* CAB-500-5 is supplied as a dry, white free-flowing powder convenient to handle.

Typical Properties

Property	Typical Value, Units
Butyryl Content	51 wt %
Acetyl Content	4 wt %
Hydroxyl Content	1%
Viscosity ^a	19 poise
Color ^b	125 ppm
Haze ^b	25 ppm
Acidity as Acetic Acid	0.03 wt %
Ash Content	0.05%
Refractive Index	1.475
Heat Test @ 160°C for 8 hr	Tan melt
Melting Point	165-175°C
Specific Gravity	1.18
Wt/Vol (Cast Film)	1.18 kg/L (9.83 lb/gal)
Bulk Density	
Poured	400 kg/m ³ (25 lb/ft ³)
Tapped	512 kg/m ³ (32 lb/ft ³)

Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Glass Transition Temperature (T_g)	96°C
Molecular Weight ^c M_n	57000
Tukon Hardness	14 Knoop

^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 Determination of color made on a solution of the ester dissolved in MIBK using Pt-Co color standards. Haze is based on scattered light from a monodispersed polystyrene latex suspension haze standard.

^c Polystyrene equivalent number average molecular weight determined by gel permeation chromatography.

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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