



Product Data Sheet

Eastman Cellulose Acetate Butyrate (CAB-531-1)

Application/Uses

- Automotive OEM
- Coatings for Automotive Plastics
- Coatings for plastic
- Coatings
- Food-contact applications
- Nail care
- Truck/Bus/Commercial Vehicles

Product Description

Eastman Cellulose Acetate Butyrate (CAB-531-1) is a cellulose ester with a higher butyryl level than *Eastman* CAB-381 type esters. Tough films with good resistance to marring and weathering are possible through combinations of cellulose acetate butyrate with thermoplastic acrylic resins. *Eastman* CAB-531-1 and CAB-381 esters are similar in hydroxyl content and solubility characteristics, both being soluble in a wide range of solvents. *Eastman* CAB-531-1 is a more flexible resin requiring lower plasticizer modification than the *Eastman* CAB-381 esters.

Typical Properties

Property	Typical Value, Units
Butyryl Content	50 wt %
Acetyl Content	2.8 wt %
Hydroxyl Content	1.7%
Viscosity ^a	5.6 poise
Color ^b	50 ppm
Haze ^b	15 ppm
Acidity as Acetic Acid	0.02 wt %
Ash Content	0.05%
Refractive Index	1.475
Heat Test @ 160°C for 8 hr	Tan melt
Melting Point	135-150°C
Glass Transition Temperature (T _g)	115°C
Specific Gravity	1.17
Wt/Vol (Cast Film)	1.17 kg/L (9.75 lb/gal)
Bulk Density	
Poured	480 kg/m ³ (30 lb/ft ³)
Tapped	576 kg/m ³ (36 lb/ft ³)
Dielectric Strength	787-984 kv/cm (2-

	2.5 kv/mil)
Molecular Weight ^c M _n	40000
Tukon Hardness	15 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 and haze made on CAB solutions using Pt-Co standard (color) and a monodisperse latex suspension (haze). Analysis performed with a Gardner Model XL-835 colorimeter.

^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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