



Product Data Sheet

Eastman Cellulose Acetate (CA-398-3)

Application/Uses

- Coatings for glass
- Coatings for paper/paperboard
- Coatings
- Consumer electronics
- Electrical
- Food packaging
- Food-contact applications
- Pressure sensitive tape
- Wood sealers

Product Description

Eastman Cellulose Acetate (CA-398-3) is one of the lower viscosity solution grades of cellulose acetate. The average ASTM viscosity of CA-398-3 is 3 seconds. *Eastman Cellulose Acetate (CA-398-3)* is supplied in the form of a fine, dry, free-flowing powder. It may be blended with appropriate solvents, plasticizers, and other modifying resins to formulate coatings for paper, glass, plastic, wire screen, and electrical wiring. Food additive regulations issued by the Food and Drug Administration (FDA) permit use of cellulose acetate in specific food packaging applications. Cellulose acetate is also prior sanctioned for use in film in food-contact applications. CA is also recognized by the FDA as generally recognized as safe (GRAS) for use in paper and paperboard in contact with food.

Typical Properties

Property	Typical Value, Units
Acetyl Content	39.8 wt %
Combined Acetic Acid Content	55.5%
Hydroxyl Content	3.5 wt %
Viscosity ^a	11.4 poise
Color ^b	80 ppm
Haze ^b	25 ppm
Ash Content	0.05%
Acidity as Acetic Acid	0.1 wt % max.
Refractive Index	1.475
Melting Point	230-250°C
Specific Gravity	1.31
Wt/Vol	1.31 kg/L (10.9 lb/gal)
Bulk Density	
Tapped	400 kg/m ³ (25 lb/ft ³)
Poured	320 kg/m ³ (20 lb/ft ³)

Dielectric Strength	669 kv/cm (1.7 kv/mil)
Glass Transition Temperature (T _g)	180°C
Tukon Hardness	26 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 solution using Pt-Co standard (color) and a monodisperse latex suspension (haze). Analysis is performed with a Gardner Model XL-835 Colorimeter.

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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