

# Technical Data Sheet

## Eastman™ Cellulose Acetate (CA-398-30)

### Applications

- Adhesives/sealants-b&c
- Auto plastics
- Auto refinish
- Building materials
- Coil coatings
- Compounders
- Consumer electronics
- Consumer housewares-nfc
- Consumer tape
- Electronic chemicals
- Filtration
- General industrial coatings
- Graphic arts
- Gravure printing inks
- Htf - pharmaceutical processing
- Lenticular
- Metal coatings
- Multi-layer film non food contact
- Non-medical housings & hardware for elec
- Ophthalmics
- Other-lcd displays
- Packaging components non food contact
- Packaging inks non food contact
- Packaging tape
- Paints & coatings
- Photographic imaging film
- Polymer modification
- Process additives
- Protective & performance film
- Protective coatings
- Shrink film non food contact
- Specialty tape
- Tac film
- Tape non food contact
- Water treatment industrial
- Wire/cable
- Wood coatings

### Product Description

Eastman Cellulose Acetate CA-398-30 is a high-viscosity, high molecular weight cellulose acetate supplied as fine, dry, free-flowing powder. The powder is free from coarse particles and excessive fines. Its relatively uniform particle size permits good plasticizer distribution during blending. When CA-398-30 is dissolved in appropriate solvents a clear, colorless solution is produced. Cellulose acetate CA-398-30 offers good physical properties for molded and extruded articles. It may be compounded into plastic using extrusion equipment or heated rolls.

Eastman CA-398-30 is based on cellulose, one of the most abundant natural renewable resources, from trees harvested from sustainably managed forests. The calculated approximate bio-content value of 55% for Eastman CA-398-30 was determined by using six bio-based carbon atoms per anhydroglucose unit divided by the total number of carbons per anhydroglucose 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
<b>General</b>	
Viscosity <sup>a</sup>	
s	30
Poise	114
Acetyl Content	39.7 %
Hydroxyl Content	3.5 wt %
Moisture Content	3.0 max %
Tg <sup>b</sup>	189 °C
Melting range	230-250 °C
Bulk Density	
Poured	320 kg/m <sup>3</sup> (20 lb/ft <sup>3</sup> )
Tapped	432 kg/m <sup>3</sup> (27 lb/ft <sup>3</sup> )
Specific Gravity	1.31
Acidity	
as Acetic Acid	0.2 wt % max.
Ash Content	<0.05 %
Tukon Hardness	26 Knoop
Refractive Index	1.475
Dielectric Strength	669 kv/cm (1.7 kv/mil)
Combined Acetic Acid Content	55.5 %

<sup>a</sup>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).

<sup>b</sup>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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