

Technical Data Sheet

Eastman™ Cellulose Acetate (CA-398-10)

Applications

- Architectural coatings
- Auto oem
- Auto refinish
- Commerical printing inks
- Compensation film
- Compounders
- Consumer housewares-nfc
- Consumer tape
- Electronic chemicals
- General industrial coatings
- Graphic arts
- Gravure printing inks
- Multi-layer film non food contact
- Pack & carton coatings
- Packaging inks non food contact
- Packaging tape
- Paints & coatings
- Paper coatings non-food grade
- Process additives
- Protective coatings
- Water treatment industrial
- Wood coatings

Product Description

Eastman Cellulose Acetate CA-398-10 is a low viscosity solution grade of cellulose acetate. It is used in a variety of coatings applications, pressure-sensitive tapes, and wood sealers. When CA-398-10 is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CA-398-10 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-398-10 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
General	
Viscosity ^a	
s	10
Poise	38
Acetyl Content	39.8 wt %
Hydroxyl Content	3.5 wt %
Moisture Content	3.0 max %
T _g ^b	185 °C
Melting range	230-250 °C
Bulk Density	
Poured	320 kg/m ³ (20 lb/ft ³)

Tapped	400 kg/m ³ (25 lb/ft ³)
Specific Gravity	1.31
Acidity as Acetic Acid	0.1 wt % max.
Ash Content	<0.05 %
Refractive Index	1.475
Dielectric Strength	669 kv/cm (1.7 kv/mil)
Tukon Hardness	26 Knoop
Combined Acetic Acid Content	55.5 %
Wt/Vol	1.31 kg/L (10.9 lb/gal)

^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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