

Technical Data Sheet

Eastman™ Cellulose Acetate (CA-320S)

Applications

- Ace machinery & equipment
- Architectural coatings
- Auto refinish
- Compensation film
- General industrial coatings
- Janitorial & household cleaners
- Paints & coatings
- Pharmaceutical chemicals
- Process additives
- Tac film

Product Description

Eastman Cellulose Acetate (CA-320S) is a cellulose ester with a high hydroxyl content. When CA-320S is dissolved in appropriate solvents a clear, colorless solution is produced. It is supplied as pellets.

Eastman CA-320S 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 63% for Eastman CA-320S 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	32
Poise	240
Acetyl Content	32.0 wt %
Hydroxyl Content	8.7 wt %
Moisture Content	3.0 max %
Tg ^b	180 °C
Melting range	230-250 °C
Bulk Density	15-33
Specific Gravity	1.31
Free-acidity	1000 max ppm
Wt/Vol	1.31 kg/L (10.9 lb/gal)
Combined Acetic Acid Content	44.7 %

^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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