

Technical Data Sheet

Eastman™ Cellulose Acetate Propionate (CAP-504-0.2)

Applications

- Adhesives/sealants-b&c
- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Automotive parts & accessories
- Commerical printing inks
- Consumer electronics
- Cosmetic ingredients - nails
- Flexographic printing inks
- General industrial coatings
- Graphic arts
- Gravure printing inks
- Industrial maintenance
- Inks
- Lighting
- Multi-layer film non food contact
- Non-medical housings & hardware for elec
- Overprint varnishes
- Pack & carton coatings
- Packaging inks non food contact
- Paints & coatings
- Photographic imaging film
- Polymer modification
- Process additives
- Process solvents
- Protective coatings
- Water treatment industrial
- Wood coatings

Product Description

Eastman Cellulose Acetate Propionate (CAP-504-0.2) is a free-flowing powder having low odor, low color, and high hydroxyl content. It is fast dissolving, has good water tolerance and resistance to souring, and is compatible with many ink resins and solvents. It has good resistance to discoloration from UV light and has good adhesion to plastics. It has a low viscosity (0.2 seconds) and has an approximate propionyl content of 42.5 wt%. When CAP-504-0.2 is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAP-504-0.2 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 49% for Eastman CAP-504-0.2 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.

For applications that require food contact compliance, please refer to Eastman CAP-504-0.2, Food Contact.

Typical Properties

Property	Typical Value, Units
General	
Viscosity ^a	

s	0.2
Poise	0.76
Acetyl Content	0.5 wt %
Propionyl Content	42.5 wt %
Hydroxyl Content	5 wt %
Moisture Content	3.0 max %
T _g ^b	159 °C
Melting range	188-210 °C
Specific Gravity	1.26
Tukon Hardness	20 Knoop
Wt/Vol	1.26 kg/L (10.53 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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