EASTMAN

Technical Data Sheet

Eastman™ Cellulose Acetate Propionate (CAP-482-20)

Applications

- Architectural coatings
- Auto oem
- Auto plastics
- Auto refinish
- Building materials
- Commerical printing inks
- Compensation film
- Consumer electronics
- Consumer housewares-nfc
- Flexographic printing inks
- General industrial coatings
- Graphic arts
- Gravure printing inks
- Industrial
- Industrial electronics
- Industrial maintenance
- Inkjet printing inks
- Leather coatings
- Lighting
- Multi-layer film non food contact
- Non-medical housings & hardware for elec
- Other-lcd displays
- Pack & carton coatings
- Packaging coatings non food contact
- Packaging component films
- Packaging inks non food contact
- Paints & coatings
- Photographic chemicals
- Photographic imaging film
- Process additives
- Protective coatings
- Screen printing inks
- Tac film
- Textile
- Truck/bus/rv
- Water treatment industrial
- Wood coatings

Product Description

Eastman Cellulose Acetate Propionate (CAP-482-20) is similar to Eastman CAP-482-0.5 in solubility and compatibility but Eastman CAP-482-20 has a higher viscosity. CAP 482-20 is useful as a film former in inks, overprint varnishes, and nail lacquer topcoats. It may be used alone or in combination with Eastman CAP-482-0.5. When CAP-482-20 is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAP-482-20 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 43% for Eastman CAP-482-20 was determined by using six bio-based carbon atoms per anhyroglucose unit divided by the total number of carbons per anhyroglucose 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 CAP-482-20, Food Contact.

Typical Properties

Property	Typical Value, Units
General	
Viscosity[a]	
s	20
Poise	76.5
Acetyl Content	1.3 wt %
Propionyl Content	48 wt %
Hydroxyl Content	1.7 wt %
Moisture Content	3.0 max %
Tg[b]	147 °C
Melting range	188-210 °C
Specific Gravity	
@ 20°C/25°C	1.22
Acidity	
as Acetic Acid	0.01 wt %
Ash Content	0.017 wt %
Refractive Index	1.475 n(25°C/D)
Tukon Hardness	23 Knoops
Wt/Vol	
@ 20°C	1.22 kg/L (10.2 lb/gal)
Form	Powder

[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]*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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