EASTMAN

Technical Data Sheet

Eastman™ Cellulose Acetate Propionate (CAP-482-0.5)

Applications

- Architectural coatings
- Auto oem
- Auto refinish
- Commerical printing inks
- Consumer electronics
- Consumer housewares-nfc
- Cosmetic ingredients - nails
- General industrial coatings
- Graphic arts
- Gravure printing inks
- Industrial electronics
- Industrial maintenance
- Inkjet printing inks
- Inks
- Leather coatings
- Lighting
- Metal coatings
- Multi-layer film non food contact
- Non-medical housings & hardware for elec
- Overprint varnishes
- Pack & carton coatings
- Packaging coatings non food contact
- Packaging components non food contact
- Packaging inks non food contact
- Personal care ingredients
- Photographic imaging film
- Process additives
- Protective & performance film
- Protective coatings
- Screen printing inks
- Shrink film non food contact
- Tac film
- Truck/bus/rv
- Water treatment industrial
- Wood coatings

Product Description

Eastman Cellulose Acetate Propionate CAP-482-0.5 is a low-odor, free-flowing powder. It is especially adaptable for use in printing inks and clear overprint varnishes because of its wide solubility in ink solvents, compatibility with other resins used in printing inks, and high melting point. Films formed from Eastman CAP-482-0.5 have fast solvent release, excellent antiblocking properties, and grease resistance superior to that of other film-formers. Its solubility and hardness make CAP-482-0.5 an excellent resin for nail lacquer topcoats. It is often used in combination with Eastman CAP-482-20 to optimize the formulation viscosity. When CAP-482-0.5 is dissolved in appropriate solvents a clear, colorless solution is produced.

Eastman CAP-482-0.5 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 45% for Eastman CAP-482-0.5 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 Eastman CAP-482-0.5, Food Contact.

Typical Properties

Property	Typical Value, Units
General	
Viscosity[a]	
s	0.5
Poise	1.53
Acetyl Content	1.5 wt %
Propionyl Content	45 wt %
Hydroxyl Content	2.6 wt %
Moisture Content	3.0 max %
Tg[b]	142 °C
Melting range	188-210 °C
Specific Gravity	1.23
Acidity	
as Acetic Acid	0.02 wt %
Ash Content	0.05 wt %
Refractive Index	1.475 n(25°C/D)
Tukon Hardness	23 Knoops
Wt/Vol	
@ 20°C	1.23 kg/L (10.2 lb/gal)

[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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