EASTMAN

Product Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-381-0.5)

Application/Uses

- Automotive OEM
- Coatings
- Coatings for Automotive Plastics
- Coatings for plastic
- Lacquers
- Lacquers for automotive
- Nail care
- Printing Inks
- Truck/Bus/Commercial Vehicles

Product Description

Remarkable polymers with a renewable backbone provided by nature itself.

Eastman™ Cellulose Acetate Butyrate (CAB 381-0.5) is a cellulose ester with medium butyryl content and low viscosity. It was designed for use where low-application viscosities at relatively high solids levels is needed. It is soluble in a wide range of solvents and compatible with many other resins. It will also tolerate the use of solvent blends currently exempt from certain air pollution regulations. It is supplied as a dry, free-flowing powder. Eastman™ cellulose esters are based on up to sixty percent cellulose, one of the most abundant natural renewable resources.

Typical Properties

Property	Typical Value, Units
Butyryl Content	37 wt %
Acetyl Content	13 wt %
Hydroxyl Content	1.5%
Viscosity [a]	1.9 poise
Color [b]	150 ppm
Haze [b]	35 ppm
Acidity as Acetic Acid	0.03 wt %
Ash Content	<0.05%
Refractive Index	1.48
Heat Test @ 160°C for 8 hr	Tan melt
Melting Point	155-165°C
Specific Gravity	1.2
Wt/Vol (Cast Film)	1.2 kg/L (10.0 lb/gal)
Bulk Density	
Poured	352 kg/m^3 (22 lb/ft^3)
Tapped	465 kg/m^3 (39 lb/ft^3)
Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Glass Transition Temperature (T_g)	130°C
Molecular Weight [c] M_n	30000
Tukon Hardness	18 Knoops

[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] *Determination of color and haze made on a solution of the cellulose ester dissolved in MIBK using Pt-Co color standards and Johns-Manville Celite (diatomaceous silica products) haze standards.*

[c] *Polystyrene equivalent number average molecular weight determined by gel permeation chromatography.*

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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