



Product Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-551-0.2)

Application/Uses

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

Product Description

Remarkable polymers with a renewable backbone provided by nature itself.

Eastman™ Cellulose Acetate Butyrate (CAB-551-0.2) is a cellulose ester with high butyryl and relatively low molecular weight. It is compatible with numerous cross-linking resins and lower solution viscosity. In coatings, Eastman™ CAB-551-0.2 gives clear films, reduces surface defects and mottling, minimizes cratering, improves flow and thermal reflow, and provides interlayer adhesion and good UV stability. It is useful for durable cross-linked formulations. Its good compatibility with a wide range of curing resin systems and its solubility in a wide variety of solvents and solvent combinations make it useful as an additive in numerous coating compositions. Eastman™ cellulose esters are based on up to sixty percent cellulose, one of the most abundant natural renewable resources.

Typical Properties

Property	Typical Value, Un
Butyryl Content	52 wt %
Acetyl Content	2 wt %
Hydroxyl Content	1.8%
Viscosity ^a	0.76 poise
Color ^b	50 ppm
Haze ^b	15 ppm
Acidity ^c as Acetic Acid	0.02 wt %

Ash Content	<0.05%
Refractive Index	1.475
Melting Point	130-140°C
Glass Transition Temperature (T _g)	101°C
Specific Gravity	1.16
Wt/Vol	1.16 kg/L (9.67 lb/gal)
Bulk Density	
Poured	515 kg/m ³ (32 lb/ft ³)
Tapped	612 kg/m ³ (38 lb/ft ³)
Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Molecular Weight ^c M _n	30000
Tukon Hardness	15 Knoop

^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 CAB-551-0.2 dissolved in a Rule 66 exempt blend of lacquer solvents, using Pt-Co color standards and a monodisperse polystyrene latex suspension haze standard.

^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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