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 content and relatively low molecular weight. It is compatible with numerous cross-linking resins and has a lower solution viscosity. In coatings, Eastman™ CAB-551-0.2 gives clear films, reduces surface tack and mottling, minimizes cratering, improves flow and thermal reflow, and provides intercoat 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, Units
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 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 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 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.