

Product Data Sheet

Eastman™ Cellulose Acetate Butyrate (CAB-381-20)

Application/Uses

- Automotive OEM
- Coatings
- Coatings for Automotive Plastics
- Coatings for cloth
- Coatings for leather
- Coatings for plastic
- Coatings for wood
- Heat seal adhesive
- Lacquers for automotive
- Lacquers for paper
- Lacquers for plastic
- Lacquers for wood
- Nail care
- Truck/Bus/Commercial Vehicles

Product Description

Remarkable polymers with a renewable backbone provided by nature itself.

Eastman™ Cellulose Acetate Butyrate (CAB-381-20) is a cellulose ester with high butyryl content and high ASTM(A) viscosity. Other than a higher viscosity and higher molecular weight, this cellulose ester shares the same general characteristics as CAB-381-0.1 and CAB-381-0.5. CAB-381-20 offers a combination of solubility and compatibility, moisture resistance, excellent surface hardness, and good film strength. CAB-381-20 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	13.5 wt %
Hydroxyl Content	1.8%
Viscosity ^a	76 poise
Color ^b	125 ppm
Haze ^b	35 ppm
Acidity as Acetic Acid	<0.03 wt %
Ash Content	0.05%
Refractive Index	1.475
Heat Test @ 160°C for 8 hr	Tan melt

Melting Point	195-205°C
Specific Gravity	1.2
Wt/Vol (Cast Film)	1.2 kg/L (10.0 lb/gal)
Bulk Density	
Poured	336 kg/m ³ (21 lb/ft ³)
Tapped	432 kg/m ³ (27 lb/ft ³)
Dielectric Strength	787-984 kv/cm (2-2.5 kv/mil)
Molecular Weight ^c M _n	70000
Glass Transition Temperature (T _g)	141°C
Tukon Hardness	18 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 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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