

## Certificate of Analysis

Date of Testing: 2022-09-03 10:08:30

Date of Next Testing: 2024-09-02 10:08:30

Product Name: **Cellulose acetate**

CAS Number: 9004-35-7

Specifications & Purity: Acetyl Content 39.8%, Hydroxyl Content 3.5 wt %

Lot #: I2201307

SKU #: **C106244**

**Analysis: 099559**

Parameter	Limit Values	Result
Acidity (as Acetic Acid)	0-0.1 (%)	0.05 %
Ash	0-0.05 (%)	0.03 %
Acetyl Content	39.3-40.3 (%)	39.82 %
Hydroxyl Content	3-4 (%)	3.50 %
Melting point	230-250 (°C)	235.00000 °C
bulk density	0.08g/cm3	0.08g/cm3
Dielectric Strength	669 kv/cm (1.7 kv/mil)	669 kv/cm (1.7 kv/mil)
Glass Transition Temperature (Tg)	185°C	185°C
Infrared spectrum	Conforms to Structure	Conforms to Structure
Poured	320 kg/m3 (20 lb/ft3)	320 kg/m3 (20 lb/ft3)
Tapped	400 kg/m3 (25 lb/ft3)	400 kg/m3 (25 lb/ft3)
Tukon Hardness	26 Knoop	26 Knoop
viscosity , 38 poise	Conforms	Conforms
Wt/Vol	1.31 kg/L (10.9 lb/gal)	1.31 kg/L (10.9 lb/gal)
Appearance (C106244)	White to Light Yellow Powder or Solid or chunks	White to Light Yellow Powder or Solid or chunks



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ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager