

Certificate of Analysis

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|--------------------------|-------------------------------------------------|
| Date of Testing: | 2023-04-07 15:11:14 |
| Date of Next Testing: | 2025-04-06 15:11:14 |
| Product Name: | Cellulose acetate |
| CAS Number: | 9004-35-7 |
| Specifications & Purity: | Acetyl Content 39.8%, Hydroxyl Content 3.5 wt % |
| Lot #: | C2329695 |
| SKU # | C106244 |
| Analysis: | 199235 |

| Parameter | Limit Values | Result |
|------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Acetyl Content | 39.3-40.3 (%) | 39.82 % |
| Acidity (as Acetic Acid) | 0-0.1 (%) | 0.01 % |
| Ash | 0-0.05 (%) | 0.02 % |
| Hydroxyl Content | 3-4 (%) | 3.50 % |
| Melting point | 230-250 (°C) | 235.50000 °C |
| bulk density | 0.08g/cm ³ | 0.08g/cm ³ |
| Dielectric Strength | 669 kv/cm (1.7 kv/mil) | 669 kv/cm (1.7 kv/mil) |
| Glass Transition Temperature (T _g) | 185°C | 185°C |
| Poured | 320 kg/m ³ (20 lb/ft ³) | 320 kg/m ³ (20 lb/ft ³) |
| Tapped | 400 kg/m ³ (25 lb/ft ³) | 400 kg/m ³ (25 lb/ft ³) |
| Tukon Hardness | 26 Knoops | 26 Knoops |
| 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 |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su
QA & QC Manager