

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-06-11 10:41:26
Date of Next Testing:	2026-06-11 10:41:26
Product Name:	<b>Cellulose acetate</b>
CAS Number:	9004-35-7
Specifications & Purity:	Acetyl Content 39.8%, Hydroxyl Content 3.5 wt %
Lot #:	F2401103
SKU #	<b>C106244</b>
Version	<b>0</b>
Analysis #:	<b>359857</b>

Parameter	Limit Values	Result
Acetyl Content	39.3-40.3 (%)	39.54 %
Melting point	230-250 (°C)	245.00000 °C
Hydroxyl Content	3-4 (%)	3.20 %
Ash	0-0.05 (%)	0.04 %
Acidity (as Acetic Acid)	0-0.1 (%)	0.09 %
Dielectric Strength	669 kv/cm (1.7 kv/mil)	669 kv/cm (1.7 kv/mil)
Glass Transition Temperature (Tg)	185°C	185°C
Poured	320 kg/m <sup>3</sup> (20 lb/ft <sup>3</sup> )	320 kg/m <sup>3</sup> (20 lb/ft <sup>3</sup> )
Tapped	400 kg/m <sup>3</sup> (25 lb/ft <sup>3</sup> )	400 kg/m <sup>3</sup> (25 lb/ft <sup>3</sup> )
Tukon Hardness	26 Knoop	26 Knoop
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
bulk density	0.08g/cm <sup>3</sup>	0.08g/cm <sup>3</sup>
Infrared spectrum	Conforms to Structure	Conforms to Structure
viscosity , 38 poise	Conforms	Conforms



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager