



CERTIFICATION

August 24, 2024

Certification #: 2024-032L

The following material:

ACR-A5161R - Laser Protective Acrylic

Supplied by

Kentek Corporation

Was tested on August 23, 2024 by Carl E. Newberg, President of MicroStat Laboratories / River's Edge Technical Service, Inc. and found to be insulative.

All testing was performed using the methods outlined in **ANSI/ESD STM11.11**, except the conditioning humidity was performed at 25% R.H.

Summary of Test Data:

The laser protective acrylic had a surface resistivity averaging 1.53×10^{14} ohms/square.

Details of testing are included in test report 2024-032L dated August 24, 2024.

Carl E Newberg
President
MicroStat Laboratories
River's Edge Technical Service, Inc.



MICROSTAT LABORATORIES
RIVER'S EDGE TECHNICAL SERVICE

Specialists in Materials Testing and Technical Services

TEST REPORT

Kentek Corporation
ACR-A5161R - Laser Protective Acrylic

TESTED FOR

Surface Resistivity Testing
per
ANSI/ESD STM11.11 (Modified)

Report #: 2024-032L
August 24th, 2024
PO: PO97557



SUMMARY

Three samples of ACR-A5161R - Laser Protective Acrylic was submitted for surface resistivity testing using the methods in ANSI/ESD STM11.11.

The supplied samples are insulative with an average surface resistivity of 1.53×10^{14} ohms/square.

EXPERIMENTAL AND DISCUSSION

The samples were tested after conditioning at 25% R.H., & 21°C. The surface resistance test was performed using the test methods described in ANSI/ESD STM11.11 with an applied bias of 100 volts.

The resistance values were converted to resistivity using the geometry of the resistance electrode. The data from this testing is included below in Table 1.

Table 1
Surface Resistivity Data

Sample #	Surface Resistivity (ohms/square)
1	1.12×10^{14}
2	1.68×10^{14}
3	1.89×10^{14}
4	1.65×10^{14}
5	1.85×10^{14}
6	1.17×10^{14}
Average	1.53×10^{14}
St. Dev.	1.26
Minimum	1.12×10^{14}
Maximum	1.89×10^{14}



EQUIPMENT USED FOR ELECTRICAL TESTING

Surface Resistance Measurements:

Keithley Model 6517a Electrometer/High Resistance Meter

ETS Model 803B Resistance Probe

ETS Model 809 Surface Resistance Verification Fixture

The results provided in this report are accurate within the limits appropriate to each test standard. The results of this report are statistically significant only to the samples submitted for testing. MicroStat Laboratories/River's Edge Technical Service, Inc. has no controls, and assumes no responsibility for the tested product's functionality or use.

Carl E Newberg

8/24/2024

Date