



CERTIFICATION

July 28, 2016

Certification #: 2016-038

The following material: Pink Poly Bags - 05/16

Supplied by: Antistat USA
1000 Heritage Center Circle.
Round Rock, Texas 78664 USA

Was tested on June 21, 2016 by Carl E. Newberg, President of MicroStat Laboratories / River's Edge Technical Service, Inc. and meets the requirements specified in ANSI/ESD S20.20, and ANSI/ESD S541.

Test methods included: ANSI/ESD STM11.11

Summary of Test Data: Average Inside Surface Resistance: 7.01×10^{10} ohms
 Average Outside Surface Resistance: 2.43×10^{10} ohms

Details of testing are included in test report 2016-038A dated June 22, 2016

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

AntiStat Inc
Pink Poly Bags
05/16

TESTED FOR

Surface Resistance per ANSI/ESD STM11.11

Report #: 2016-038A
June 22nd, 2016



SUMMARY

A set of pink poly bags was submitted for testing to industry specification ANSI/ESD STM11.11 (surface resistance measurements of the inside and outside of the bags). The tested bags meet or exceed the requirements of ANSI/ESD S541 and ANSI/ESD S20.20 with surface resistances below 1×10^{11} ohms.

EXPERIMENTAL AND DISCUSSION

The bags were randomly selected and conditioned for 48 hours at the specified conditions (12% R.H. & 23°C) before testing was started. Testing was carried out in the conditioning environment.

Surface resistance is reported as “resistance,” as specified in ANSI/ESD STM11.11. To obtain resistivity values, multiply the resistance numbers by 10. The data from this testing is included below in Table 1.

Table 1
Surface Resistance Data

Surface Resistance per ANSI/ESD STM11.11		
Sample #	Inside	Outside
1	$9.24 \times 10^{10}\Omega$	$5.40 \times 10^{10}\Omega$
2	$9.59 \times 10^{10}\Omega$	$6.02 \times 10^{10}\Omega$
3	$3.89 \times 10^{10}\Omega$	$1.72 \times 10^{10}\Omega$
4	$5.79 \times 10^{10}\Omega$	$1.46 \times 10^{10}\Omega$
5	$7.70 \times 10^{10}\Omega$	$1.49 \times 10^{10}\Omega$
6	$7.69 \times 10^{10}\Omega$	$1.67 \times 10^{10}\Omega$
Average	$7.01 \times 10^{10}\Omega$	$2.43 \times 10^{10}\Omega$
Median	$7.70 \times 10^{10}\Omega$	$1.70 \times 10^{10}\Omega$
Minimum	$3.89 \times 10^{10}\Omega$	$1.46 \times 10^{10}\Omega$
Maximum	$9.59 \times 10^{10}\Omega$	$6.02 \times 10^{10}\Omega$



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

June 22nd, 2016

Date