

















Testing Laboratory: Momentum Technologies Laboratories, Inc.

1507 Boettler Rd. Uniontown OH 44685 Ph: 330-595-4293 Fax: 330-5954142

Customer:

Project #: SX21B9B

Quote #: 2019-059

Date of Report: Friday, February 22, 2019

PO#:

Abstract:

Analysis of prepared products for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer per ASTM C1549-16 and for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers per ASTM C1371-15

MTI# Description of Material Receiving Date

MTI-181302	1- 4"x4"x0.0347" panel labeled Shell Coat- Shell Coat	2/20/2019
MTI-181303	1-4"x4"x0.0247" panel labeled Shell Coat M56	2/20/2019















SX21B9B Page 2 of 7



Project #: SX21B9B
Quote #: 2019-059
Date: 2/22/2019

PO#:

Results and Conclusion

Test #: 10

Method C 1371-15

Test/Description: Thermal Emittance

9.1.1 Shell Coat-Shell Coat is a flat white coated panel.

9.1.2 The history of the sample is unknown.

9.1.3 Thickness of the sample as received and as tested: 0.0347"

9.1.4 Temperature of the room in which the measurements were conducted 23°C.

9.1.5 Calibration standard tiles used: high emittance serial number 2494 with an assigned emittance value of 0.88 and low emittance serial number 2476 with an assigned emittance value of 0.05.

9.1.6 Measured values of emittance:

Reading 1	Reading 2
0.87	0.87

9.1.7 Date of the testing: 2-21-19 and time periods involved in the test: 1 min 30 sec

9.1.8 This test conformed with all requirements of ASTM C1371.

9.1.9 Estimated or calculated uncertainty not reported

Result: 0.87

Requirement Report Results

Conclusion: N/A















SX21B9B Page 3 of 7



Project #: **SX21B9B** Quote #: 2019-059

Date: 2/22/2019

PO#:

Results and Conclusion

Test #: 10

Method C 1549-16

Test/Description: Solar Reflectance

8.1 The sample Shell Coat- Shell Coat arrived as flat white coated panel. The panel was wiped with a dry cloth prior to testing. The panels measured thickness is 0.0347" . The sample was tested in the middle of the panel. 8.2 Manufacturer of the sample tested is unknown. The age and the history of the specimen is unknown.

8.3 The temperature and relative humidity of the laboratory during testing: 23°C & 50% R.H.

8.4 The measured solar reflectances

1	Reading 1	Reading 2	Reading 3
Ī	0.890	0.885	0.895
ı	0.890	0.885	0.895
ı	0.890	0.885	0.895

The arithmetic average of the measured reflectances: 0.890 The standard deviation of the set of measurements: 0.004

8.5 The air mass to be associated with the measured solar reflectance is 1.5.

8.6 The date of the test 2-21-19

8.7 Testing was completed in compliance with ASTM C 1549-16 procedures.

8.8 Estimated uncertainty is not reported

Result: 0.890

Requirement Report Results

Conclusion:















SX21B9B Page 4 of 7



Project #:

SX21B9B

Quote #: Date:

2019-059 2/22/2019

PO#:

Results and Conclusion

Conclusion:

The test results are as reported with no acceptance criteria provided.

Tested By:

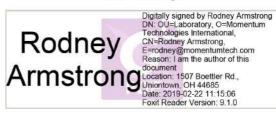


Digitally signed by Stacey Weister DN: C=US, OU=Laboratory, O=Momentum Technologies International, CN=Stacey Weister, E=stacey@momentumtech.com Reason: I am the author of this Location: Uniontown, OH Date: 2019-02-22 10:16:02 Foxit Reader Version: 9.1.0

Stacey Weister

Construction Laboratory Supervisor

Reviewed By:



Rodney Armstrong

Director of Laboratory Services

Revision Log

Revision # Date Revision 2/22/2019 0 Original

The information presented in this publication is based upon the research of Momentum Technologies Laboratories, Inc. (MT Labs) and is to the best of its knowledge accurate. However, no guarantee of its accuracy can be made since MT Labs has no control over the conditions under which its products may be used by others. MT Labs assumes no liability for its use, or the failure of products described herein. MT Labs MAKES NO WARRANTIES EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS, PATENT INFRINGEMENT, OR OTHERWISE. MT Labs SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES. No statement contained herein shall be construed as a recommendation or inducement to infringe existing patents or as an endorsement of products of specific manufacturers. ALL TEST REPORTS SHALL NOT BE REPRODUCED, EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF MT Labs















SX21B9B Page 7 of 7