

Technical Service Report





Testing Laboratory:

Momentum Technologies Laboratories, Inc.
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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 Emitters 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





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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





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Results and Conclusion

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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

Reading 1	Reading 2	Reading 3
0.890	0.885	0.895
0.890	0.885	0.895
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: N/A





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Results and Conclusion

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

Tested By:

Reviewed By:

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Stacey Weister

Rodney Armstrong

Construction Laboratory Supervisor

Director of Laboratory Services

Revision Log

Revision #	Date	Revision
0	2/22/2019	Original

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