Façade & Roof Material Daylight Reflectance Test Report

Report number: OTM2104001

Client: **Company name**

Address line 1
Address line 2
Address line 3

Attention: Name

Laboratory: **Optical & Thermal Testing Laboratory**

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View laboratory profile

The Optical & Thermal Testing Laboratory of OTM Solutions Pte Ltd is accredited to ISO/IEC 17025 under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme (SAC-SINGLAS, Certificate No: LA-2016-0610-G).

The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council.

Report number: OTM2104001

Job description: Total / diffuse / specular daylight reflectance testing of 1 piece of sample.

The sample was delivered by the client and received by OTM on 01/04/2021 and was tested on 01/04/2020.

Approved signatory: Dr. Chen Fangzhi

Laboratory Manager (Tel: +65 9187 7666; Email: chen.fz@otm.sg)

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Date of test: 01/04/2021

Date of report: 01/04/2021

SAMPLE

Test method description

Methods:	• ASTM E903-20 Standard test method for solar absorptance, reflectance, and transmittance of materials using integrating spheres • ASTM E971-11 Standard practice for calculation of photometric transmittance and reflectance of materials to solar radiation • CIE 130-1998 Practical methods for the measurement of reflectance and transmittance
Instruments	• PerkinElmer Lambda 950 UV/VIS/NIR spectrophotometer, with 150 mm integrating sphere
Environmental conditions	• Temperature: 24 ± 2 °C • Relative humidity: 45 ± 15%
Calculation software	• In-house software (DLR@OTM, V1.2.0) based on ASTM E971-11 (based on ASTM G173 AM1.5 direct normal solar spectrum)
Estimated uncertainties	• Total daylight reflectance: ±0.007 (±0.7%) • Diffuse daylight reflectance: ±0.007 (±0.7%) • Specular daylight reflectance: ±0.004 (±0.4%) • The uncertainties were estimated at a level of confidence of approximately 95%, with a coverage factor k = 2
Notes	N/A

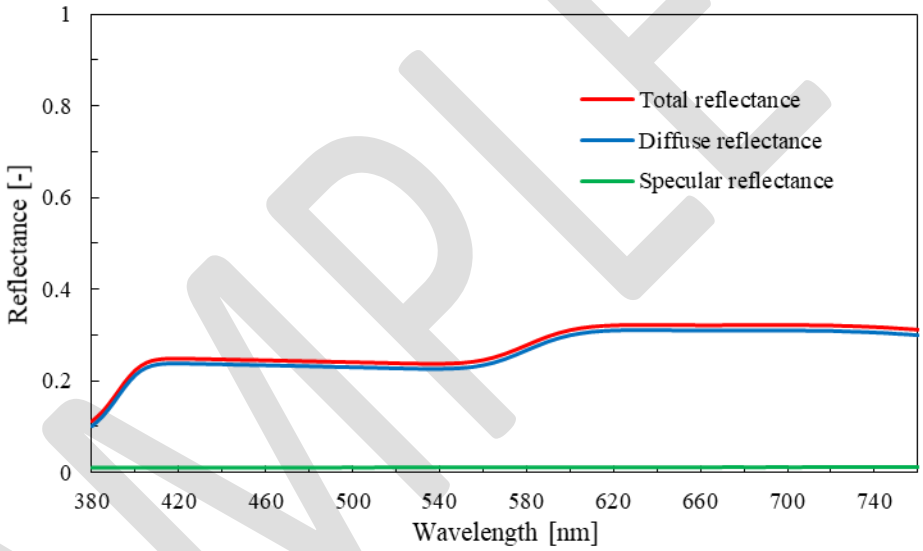
Disclaimer

- The test report shall not be reproduced except in full, without written approval of the laboratory.
- The sampling was not performed by the laboratory. The test results relate only to the samples received and tested.
- The sample description information was declared by the client and it may affect the validity of the results.
- The test report is issued subject to the “Testing Service Terms and Conditions” annexed to OTM official quotation and on request from OTM.

SAMPLE

Façade & Roof Material Daylight Reflectance Test Report

Report number: OTM2104001

Sample ID	2104001
Sample description	Sample description
Dimension	1 mm × 10 cm × 10 cm
Test results	Total daylight reflectance = 0.260 (26.0%) Diffuse daylight reflectance = 0.250 (25.0%) Specular daylight reflectance = 0.010 (1.0%)
Curves	

SAMPLE

Photos	Test sample photos

SAMPLE