Insulation Material Steady-State Thermal Transmission Property Test Report

Report number: OTM2403028

Client: **Vodapruf Pte Ltd**

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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.

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Job description: Steady-state thermal transmission property testing of 1 piece of insulation material sample at 20 °C mean temperature.

The test sample was delivered by the client and received by OTM on 27/02/2024 and was tested on 05/03/2024 & 06/03/2024.

Approved signatory: Dr. Chen Fangzhi

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

Digitally signed by Fangzhi CHEN
Date: 2024.04.02 14:54:43+08'00'

Date of test: 05/03/2024 & 06/03/2024

Date of report: 26/03/2024

Test method description

Methods:	• ASTM C518-21 Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus
Instruments	• Thermtest HFM-100 heat flow meter • Thermal conductivity reference material: NIST SRM 1450e, fibrous-glass board
Calculation software	• N/A
Estimated uncertainties	• Thermal conductivity: ±5% of relative uncertainty • The uncertainties were estimated at a level of confidence of approximately 95%, with a coverage factor k = 2. • The estimated uncertainties do not include uncertainties caused by sample-to-sample variations and sample non-uniformities.
Notes	• The mean temperature of the tests was 20 °C. • The sample dimension and density are nominal values. • The sample was conditioned in 24 ± 2 °C and 50 ± 10%RH for more than 24 hours and with less than 1% of mass change prior to the testing.

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 sample received and tested.
- The client's reference 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 ID	2403011
Sample description	LIGHTHERM Drymix 250
Dimension	5 cm × 30 cm × 30 cm
Density	200 kg/m^3
Test results	At mean temperature of 20 °C: Thermal conductivity = 0.0683 W/(m·K)
Photos	 Side 1

	 Side 2