

ULR-TC702019000000123F

Report No: CRDF/RPT/SRI/442

Report Date: 02nd July 2019

Report of test carried out by CEPT Research & Development Foundation for Solar Reflectance Index of Supplied Material

The test results of the specimen submitted for Solar Reflectance Index on date 29th June 2019 are as under:

1. Customer Information

- i. **Name of the Organization** : M/s. Maxshield Insutech Technologies
- ii. **Contact Person** : Mr. C. Shrinivasan (Managing Partner)
- iii. **Address** : No.65, Arun Complex,
D.V.G, Basavanagudi,
Bangalore - 560004
- iv. **Phone Numbers** : 9845979955
- v. **Fax Number** : Not Available
- vi. **Email** : maxshieldinsutech@gmail.com

2. Photometry Testing

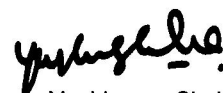
2.1 Glazing Materials

2.1.1 Sample Details

- i. **Sample Identification Number** : SRI/07/19/1443
- ii. **Date of Test** : 01st July 2019
- iii. **Name and any other pertinent**
- iv. **Identification of the material (including physical description):** COOOLA – Heat Insulation Tiles
- v. **Thickness of the specimen (Reported)** : 15mm
- vi. **Thickness as tested** : Not Applicable
- vii. **Condition of Sample when received** : Satisfactory
- viii. **Method and Environment used for conditioning (if used)** : Not Applicable
- ix. **No. of Surfaces** : Not Applicable
- x. **The type of surfaces** : Not Applicable
- xi. **Position of panes (if Multiple Glazed)** : Not Applicable
- xii. **The position of coating(s) designating faces of the panes as 1, 2 , 3 starting from the outer surface of pane 1:**
Not Applicable
- xiii. **The face of the panes (if Coated)** : Not Applicable
- xiv. **Instrument used** : Spectrophotometer with integrating sphere with reference material
Spectralone & FTIR with IR specular reflection set.
- xv. **Boundary Conditions (Test Method)** : ASTM E 1980-11, EN 12898:2001, EN 673:2011, and EN 410:2011



Jigar Patel
Lab. Supervisor



Yashkumar Shukla
Technical Director



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2.1.2 Results of the measurement:

Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
COOOLA – Heat Insulation Tiles	SRI/07/19/1443	0.7053	0.7081	0.7091	0.7075

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
COOOLA – Heat Insulation Tiles	SRI/07/19/1443	0.926	0.926	0.926	0.926

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
COOOLA – Heat Insulation Tiles	SRI/07/19/1443	Low Wind($h_c=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($h_c=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		87	87	88

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature ($^{\circ}\text{C}$)		
COOOLA – Heat Insulation Tiles	SRI/07/19/1443	Low Wind($h_c=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($h_c=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		56.5	49.3	43.2

Remark, if Any:

3 Certificate of Accuracy:

This is to certify that the test results herein presented are, to the best of my knowledge, true and accurate representations of the samples submitted.

Jigar Patel

Jigar Patel
Lab. Supervisor



Yashkumar Shukla

Yashkumar Shukla
Technical Director

Disclaimer:

1. The CEPT Research & Development Foundation is not responsible for any kind of alterations in the physical property of the sample and the customer is solely responsible for it and its consequences.
2. The test results and the statement of compliance with specification in this report relate only to the test sample as tested and not to the sample/item from which the test sample was drawn. Sample will be destroyed after 7 days of issue of the report unless specified by the customer.
3. Any complains about this report should be communicated in writing within 7 days of issue of the report.
4. The test report shall not be reproduced fully or partially or in parts and cannot be used as an evidence in a court of law and shall be used in advertising media without written approval of Director, CEPT Research & Development Foundation.