

CEPT Research & Development Foundation Test Report for Solar Reflectance Index (SRI)





ULR-TC702021000000008F

Report Date: 05th February 2021 Report No: CRDF/RPT/SRI/551

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 02nd February 2021 are as under:

1. Customer Information

i. Name of the Organization

: Shipra Tiles

Contact Person

: Ravindra Prasad Sinha

iii. Address

: A/167, P.C. Colony, Kankarbagh, Patna

Phone Numbers Fax Number

: 7050103805 : Not Applicable

Email vi.

: info@shipratiles.com

2. Photometry Testing

2.1 Glazing Materials

2.1.1. Sample Details

i. Sample Identification Number : SRI/02/21/1552

ii. Date of Test : 04th February 2021

iii. Name and any other pertinent Identification of the material (Including physical description)

: Shipra Heat Resistant Tile

Thickness of the specimen iv.

(As declared by customer)

: 20 mm

Thickness as tested ٧.

: Not Applicable

Condition of Sample when received vi.

: Satisfactory

vii. Method and Environment used for

Conditioning (if used)

: Not Applicable

Condition used for laboratory soiling viii.

And weathering (if used)

: Not Applicable

Description of soiling mixture ix. (If laboratory soiling and

Weathering used)

: Not Applicable

Instrument used X.

: Spectrophotometer with integrating sphere with reference material

Spectralone & FTIR with IR specular reflection set.

Boundary Conditions (Test Method) χi.

: ASTM E 1980-19, EN 12898:2019, EN 673:2011, and EN 410:2011

N.D. Bhesanisa Nikhil Bhesaniya Lab. Technician

Assistant Lab. Manager







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4 Results of the measurement:

Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Shipra Heat Resistant Tile	SRI/02/21/1552	0.8058	0.8009	0.7973	0.8013

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Shipra Heat Resistant Tile	SRI/02/21/1552	0.905	0.904	0.907	0.905

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)			
Shipra Heat Resistant Tile	SRI/02/21/1552	Low Wind(h _c =5 W m ⁻² K ⁻¹)	Medium Wind(h _c =12 W m ⁻² K ⁻¹)	High Wind(h _c =30 W m ⁻² K ⁻¹)	
	SIN/02/21/1332	100	100	100	

Surface Temperature (Ts) under different wind conditions

Sample name	Sample ID	Surface Temperature (°C)		
Shipra Heat Resistant Tile	SRI/02/21/1552	Low Wind(h _c =5 W m ⁻² K ⁻¹)	Medium Wind(h _c =12 W m ⁻² K ⁻¹)	High Wind(h _c =30 W m ⁻² K ⁻¹)
	011/02/21/1002	49.1	44.5	40.7

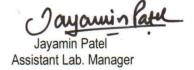
Remark, if Any:

5 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.

N.D. Bhesamisa Nikhil Bhesaniya Lab. Technician





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.