

ULR-TC70202100000008F

Report No: CRDF/RPT/SRI/551

Report Date: 05th February 2021**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
- ii. **Contact Person** : Ravindra Prasad Sinha
- iii. **Address** : A/167, P.C. Colony, Kankarbagh, Patna
- iv. **Phone Numbers** : 7050103805
- v. **Fax Number** : Not Applicable
- vi. **Email** : 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
- iv. Thickness of the specimen (As declared by customer) : 20 mm
- v. Thickness as tested : Not Applicable
- vi. Condition of Sample when received : Satisfactory
- vii. Method and Environment used for Conditioning (if used) : Not Applicable
- viii. Condition used for laboratory soiling And weathering (if used) : Not Applicable
- ix. Description of soiling mixture (If laboratory soiling and Weathering used) : Not Applicable
- x. Instrument used : Spectrophotometer with integrating sphere with reference material Spectralone & FTIR with IR specular reflection set.
- xi. Boundary Conditions (Test Method) : ASTM E 1980-19, EN 12898:2019, EN 673:2011, and EN 410:2011

*N. D. Bhesaniya*Nikhil Bhesaniya
Lab. Technician*Jayamin Patel*Jayamin Patel
Assistant Lab. Manager

ULR-TC70202000000008F

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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)		
		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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
Shipra Heat Resistant Tile	SRI/02/21/1552	100	100	100

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature (°C)		
		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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
Shipra Heat Resistant Tile	SRI/02/21/1552	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. Bhesaniya
Nikhil Bhesaniya
Lab. Technician



Jayamin Patel
Jayamin Patel
Assistant Lab. Manager

Disclaimer:

- 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.
- 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.
- Any complains about this report should be communicated in writing within 7 days of issue of the report.
- 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.