

ULR-TC702024000000084F

Report No: CRDF/RPT/SRI/904

Report Date: 02nd July 2024**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 13th April 2024 are as under:**1. Customer Information**

- i. **Name of the Organization** : Grasim Industries Limited, Birla Paints Division
- ii. **Contact Person** : Tilok Kataria
- iii. **Address** : Aditya Birla Science and Technology Company Pvt Ltd,
Plot No 1 and 1-A/1, MIDC Taloja, Taluka Panvel,
Raigad District, Raigad, Maharashtra - 410208
- iv. **Phone Numbers** : 9930939554
- v. **Fax Number** : Not Applicable
- vi. **Email** : tilok.kataria@adityabirla.com

2. Photometry Testing**2.1 Glazing Materials****2.1.1. Sample Details**

- i. **Sample Identification Number** : SRI/06/24/1905
- ii. **Date of Test** : 17th June 2024
- iii. **Name and any other pertinent Identification of the material** : Birla Opus Prime E50 Exteriors Premium Emulsion
- iv. **Thickness of the specimen (As declared by customer)** : 8mm panel and 60-80 micron paint on top
- 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. **Environmental Conditions maintained during the test** : Temperature 26.4° C and Humidity 43% Rh
- xii. **Boundary Conditions (Test Method)** : ASTM E 1980, BS EN 12898, EN 673 and EN 410


Analyzed By:
Nikhil Bhesaniya
Lab. Technician


Reviewed By:
Yashkumar Shukla
Technical Director



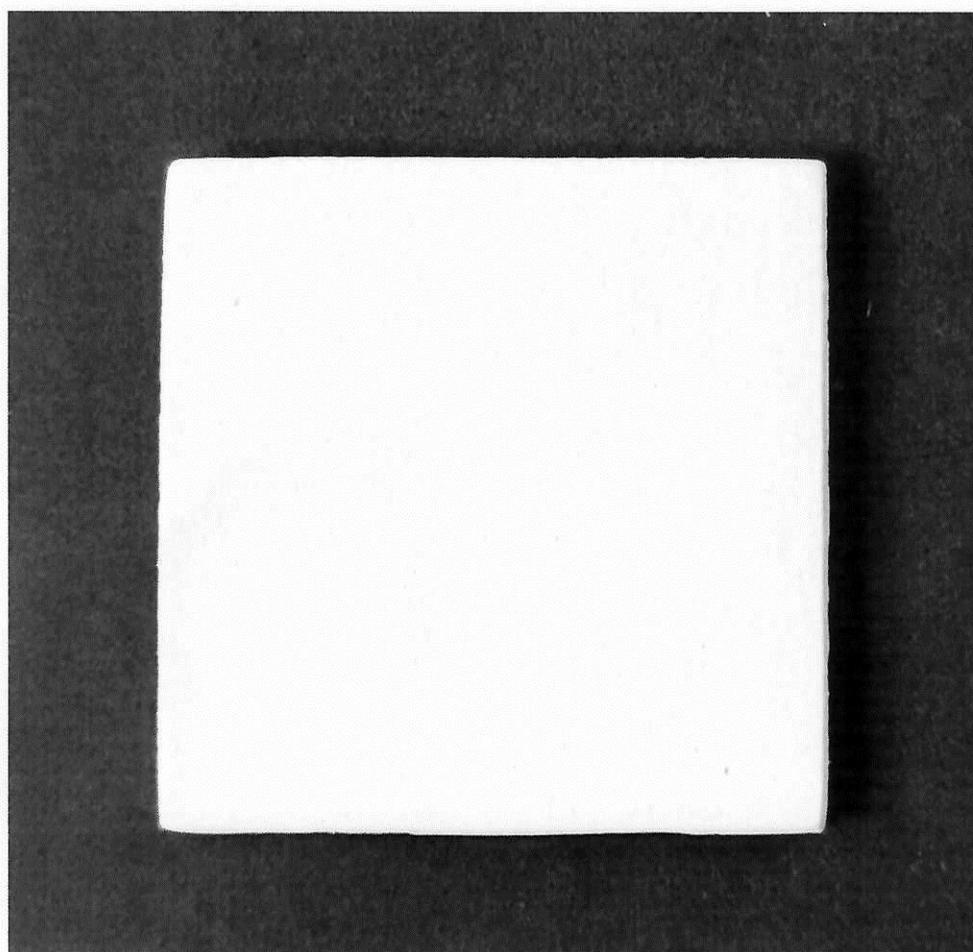

Authorized By:
Yashkumar Shukla
Technical Director

Report No: CRDF/RPT/SRI/904

ULR-TC702024000000084F

Report Date: 02nd July 2024

3. Photograph of the specimen.



N.D. Bhesaniya
Analyzed By:
Nikhil Bhesaniya
Lab. Technician

Yashkumar Shukla
Reviewed By:
Yashkumar Shukla
Technical Director



Yashkumar Shukla
Authorized By:
Yashkumar Shukla
Technical Director

ULR-TC702024000000084F

Report No: CRDF/RPT/SRI/904

Report Date: 02nd July 2024

4 Results of the measurement:

Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Birla Opus Prime E50 Exteriors Premium Emulsion	SRI/06/24/1905	0.8495	0.8495	0.8529	0.8506

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Birla Opus Prime E50 Exteriors Premium Emulsion	SRI/06/24/1905	0.917	0.917	0.917	0.917

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
Birla Opus Prime E50 Exteriors Premium Emulsion	SRI/06/24/1905	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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		108	107	107

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature ($^{\circ}\text{C}$)		
Birla Opus Prime E50 Exteriors Premium Emulsion	SRI/06/24/1905	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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		44.8	41.8	39.3

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. Ghose

Analyzed By:
Nikhil Bhesaniya
Lab. Technician

Disclaimer:

Yashkumar Shukla
Reviewed By:
Yashkumar Shukla
Technical Director



Yashkumar Shukla
Authorized By:
Yashkumar Shukla
Technical Director

- 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.