

ULR-TC702024000000085F

Report No: CRDF/RPT/SRI/905

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/06/24/1906
- ii. **Date of Test** : 17th June 2024
- iii. **Name and any other pertinent Identification of the material** : Birla Opus Prime E70 Exteriors Luxury 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 26.2° C and Humidity 45% Rh
- xii. **Boundary Conditions (Test Method)** : ASTM E 1980, BS EN 12898, EN 673 and EN 410

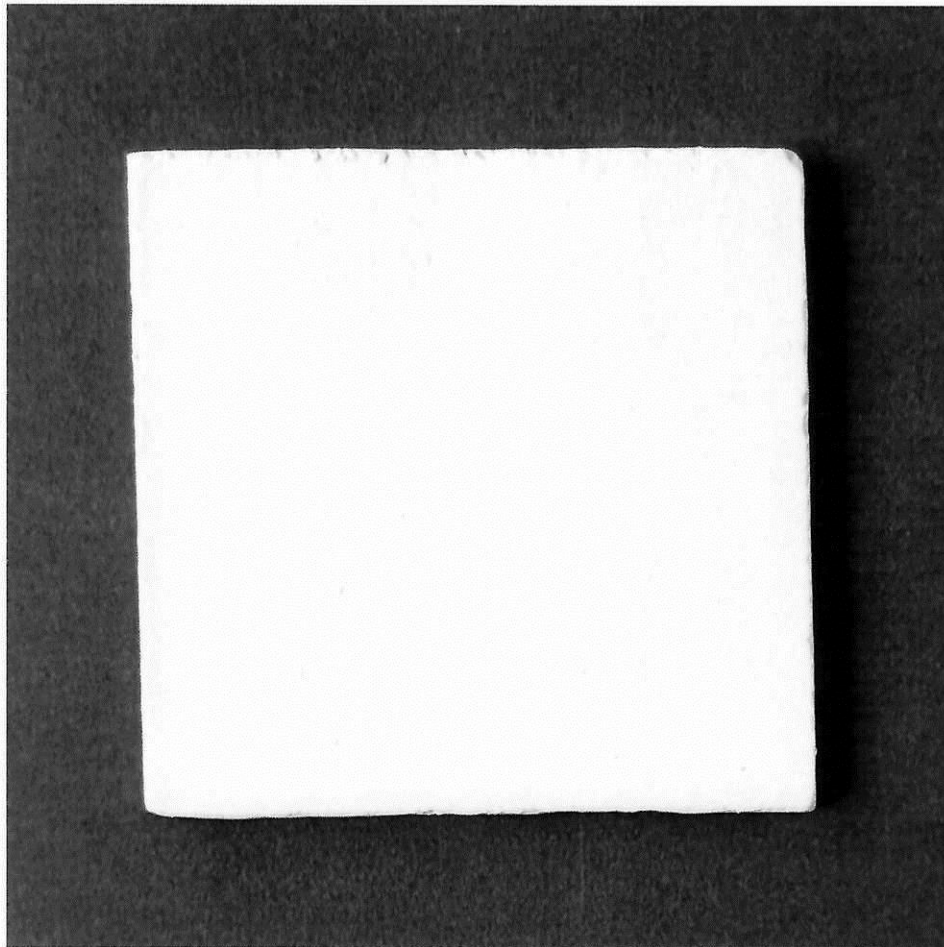
**Analyzed By:**
Nikhil Bhesaniya
Lab. Technician**Reviewed By:**
Yashkumar Shukla
Technical Director**Authorized By:**
Yashkumar Shukla
Technical Director

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3. Photograph of the specimen.



N.D. Bhesaniya
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Lab. Technician

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Technical Director



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4 Results of the measurement:

Solar Direct Reflectance

| Sample name | Sample ID | Measurement 1 | Measurement 2 | Measurement 3 | Average |
|--|----------------|---------------|---------------|---------------|---------|
| Birla Opus Prime E70 Exteriors Luxury Emulsion | SRI/06/24/1906 | 0.8725 | 0.8730 | 0.8758 | 0.8738 |

Emissivity

| Sample name | Sample ID | Measurement 1 | Measurement 2 | Measurement 3 | Average |
|--|----------------|---------------|---------------|---------------|---------|
| Birla Opus Prime E70 Exteriors Luxury Emulsion | SRI/06/24/1906 | 0.914 | 0.916 | 0.915 | 0.915 |

Solar Reflectance Index (SRI) under different wind conditions

| Sample name | Sample ID | Solar Reflectance Index (SRI) | | |
|--|----------------|---|---|---|
| Birla Opus Prime E70 Exteriors Luxury Emulsion | SRI/06/24/1906 | 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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$) |
| | | 112 | 111 | 110 |

Surface Temperature (T_s) under different wind conditions

| Sample name | Sample ID | Surface Temperature ($^{\circ}\text{C}$) | | |
|--|----------------|---|---|---|
| Birla Opus Prime E70 Exteriors Luxury Emulsion | SRI/06/24/1906 | 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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$) |
| | | 42.8 | 40.5 | 38.7 |

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

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.
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