

ULR-TC702024000000135F

Report No: CRDF/RPT/SRI/932

Report Date: 07th November 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 04th November 2024 are as under:**1. Customer Information**

- | | |
|-----------------------------|--|
| i. Name of the Organization | : Birla Opus Paints (Grasim Industries Limited) |
| ii. Contact Person | : Bhaskar Nath |
| iii. Address | : Birla Opus, Grasim Industries Limited, Aditya Birla Science and Technology Company Private Limited, Plot No.1 &1-A/1, MIDC Taloja, Taluka Panvel, Raigad District, Navi Mumbai, Maharashtra - 410208 |
| iv. Phone Numbers | : 9892619720 |
| v. Fax Number | : Not Applicable |
| vi. Email | : bhaskar.nath@adityabirla.com |

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

- | | |
|--|---|
| i. Sample Identification Number | : SRI/11/24/1931 |
| ii. Date of Test | : 06 th November 2024 |
| iii. Name and any other pertinent Identification of the material | : Birla Opus Prime E90 Exteriors Ultra 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 25.5° C and Humidity 51 % Rh |
| xii. Boundary Conditions (Test Method) | : ASTM E 1980, BS EN 12898, EN 673 and EN 410 |



N.D. Ghese
Analyzed By:
Nikhil Bhesaniya
Deputy Manager

Yashkumar Shukla
Reviewed By:
Yashkumar Shukla
Technical Director

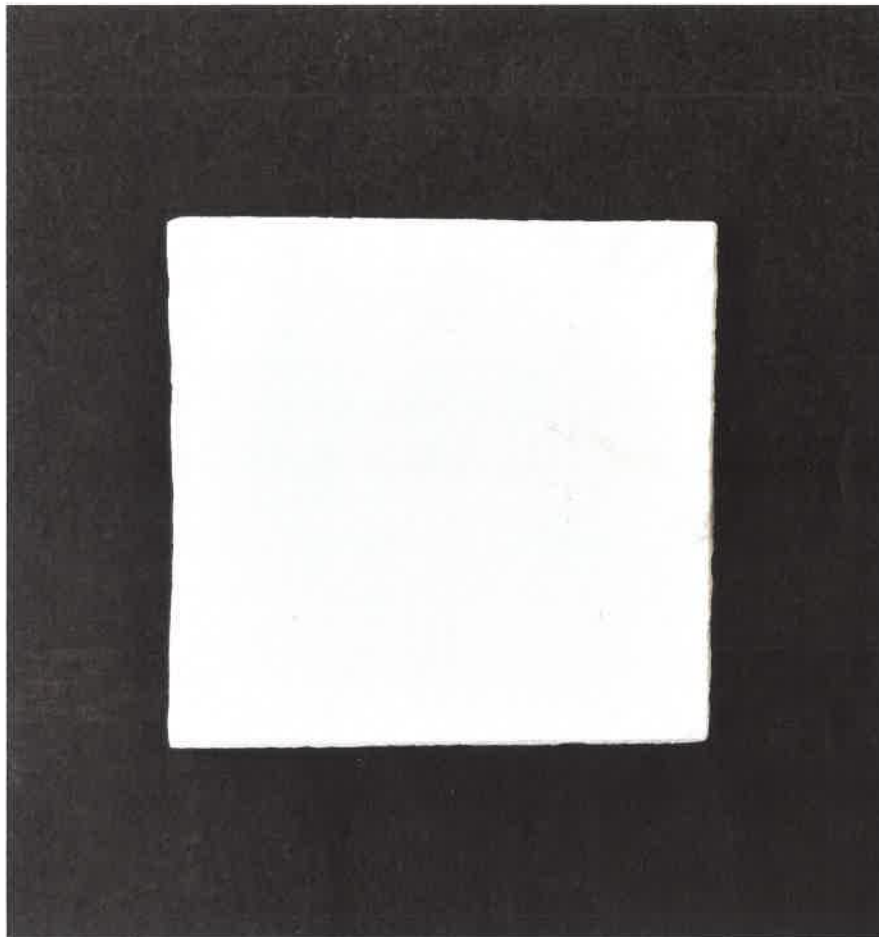
Yashkumar Shukla
Authorized By:
Yashkumar Shukla
Technical Director

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3. Photograph of the specimen.



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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 E90 Exteriors Ultra Luxury Emulsion	SRI/11/24/1931	0.8617	0.8625	0.8615	0.8619

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Birla Opus Prime E90 Exteriors Ultra Luxury Emulsion	SRI/11/24/1931	0.910	0.910	0.910	0.910

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
Birla Opus Prime E90 Exteriors Ultra Luxury Emulsion	SRI/11/24/1931	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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		110	109	109

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature ($^{\circ}\text{C}$)		
Birla Opus Prime E90 Exteriors Ultra Luxury Emulsion	SRI/11/24/1931	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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		43.9	41.2	39.0

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
Deputy 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.

Yashkumar Shukla
Reviewed By:
Yashkumar Shukla
Technical Director



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Authorized By:
Yashkumar Shukla
Technical Director