

ULR-TC702024000000082F


Report No: CRDF/RPT/SRI/902

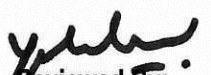
Report Date: 02nd July 2024**Report of test carried out by CEPT Research & Development Foundation for Solar Reflectance Index of Supplied Material**The test results of the specimen submitted for Solar Reflectance Index on date 13th April 2024 are as under:**1. Customer Information**

- 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/06/24/1903
- ii. **Date of Test** : 17th June 2024
- iii. **Name and any other pertinent Identification of the material** : Birla Opus Prime B90 Exteriors Ultra Luxury Waterproof Coating
- 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 44% 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



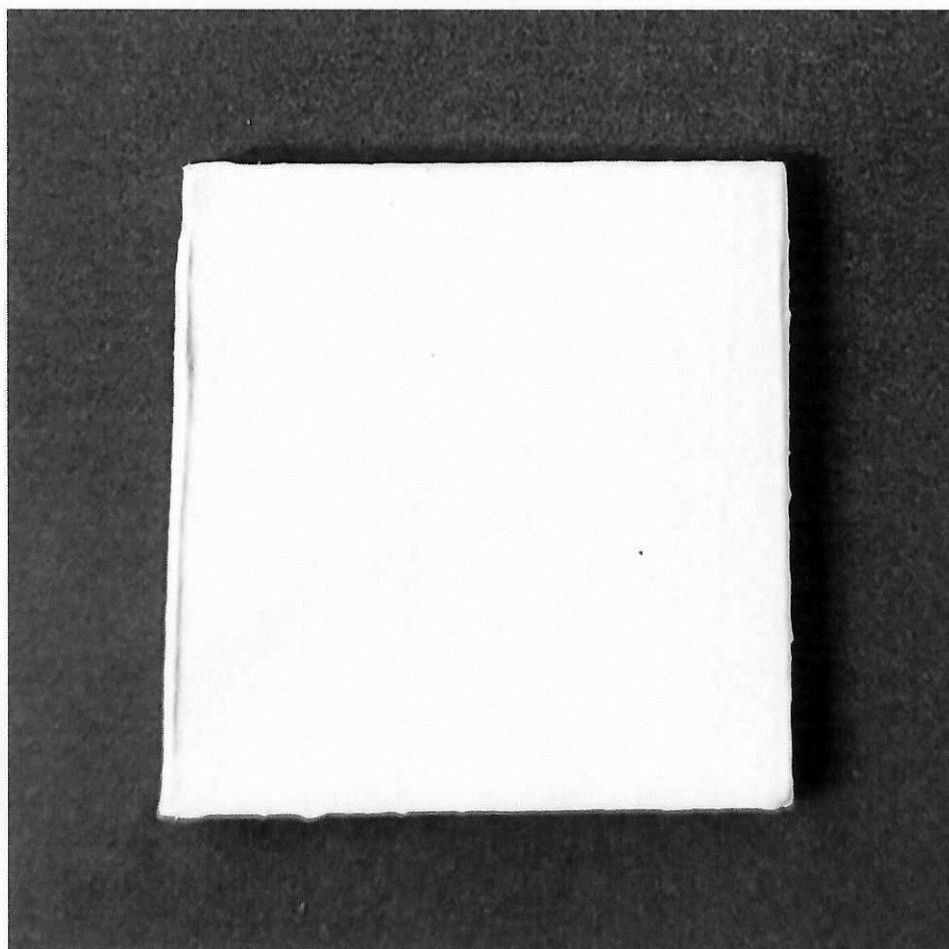

Authorized By:
Yashkumar Shukla
Technical Director

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3. Photograph of the specimen.



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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 B90 Exteriors Ultra Luxury Waterproof Coating	SRI/06/24/1903	0.8325	0.8324	0.8329	0.8326

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Birla Opus Prime B90 Exteriors Ultra Luxury Waterproof Coating	SRI/06/24/1903	0.921	0.921	0.921	0.921

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
Birla Opus Prime B90 Exteriors Ultra Luxury Waterproof Coating	SRI/06/24/1903	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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		106	105	105

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature ($^{\circ}\text{C}$)		
Birla Opus Prime B90 Exteriors Ultra Luxury Waterproof Coating	SRI/06/24/1903	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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
		46.2	42.7	39.8

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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- 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.