

ULR-TC702024000000083F

Report No: CRDF/RPT/SRI/903


Report Date: 02<sup>nd</sup> 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 13<sup>th</sup> 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/06/24/1904
- ii. **Date of Test** : 17<sup>th</sup> June 2024
- iii. **Name and any other pertinent Identification of the material** : Birla Opus Prime E30 Exteriors Emulsion Paint
- 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 26.3° C and Humidity 42% 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



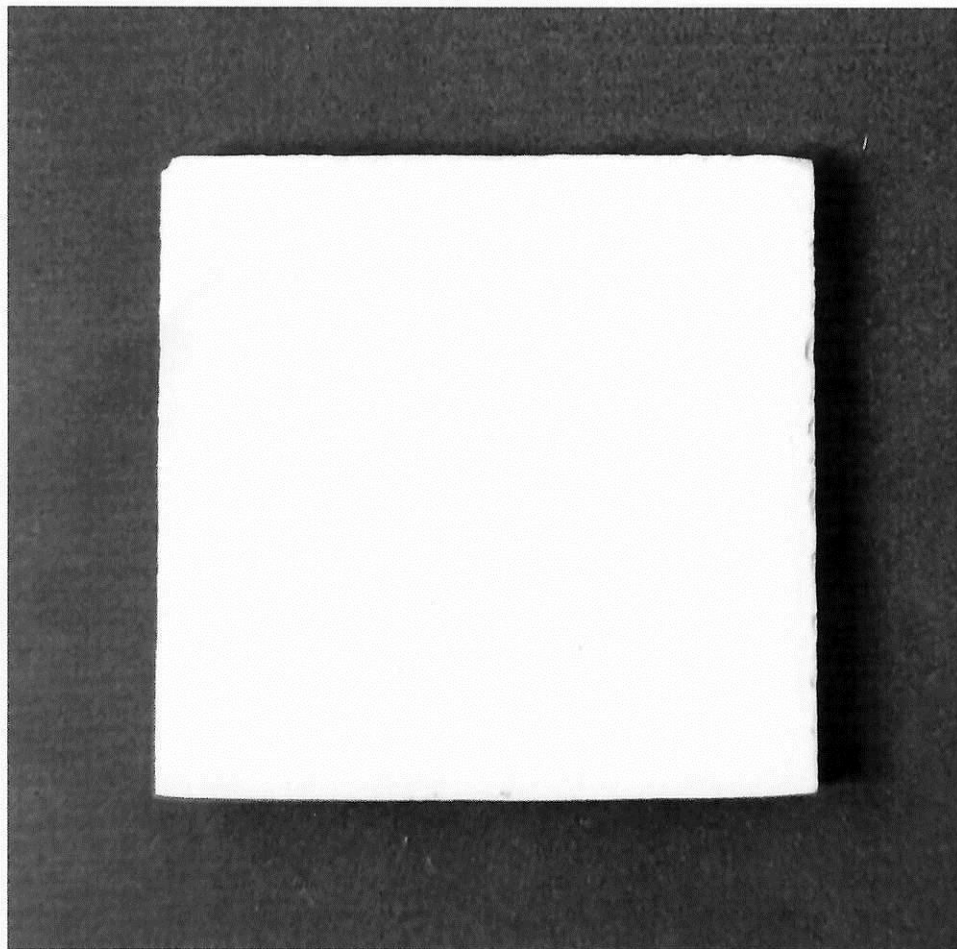
  
**Authorized By:**  
Yashkumar Shukla  
Technical Director

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**3. Photograph of the specimen.**



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

*Yashkumar Shukla*  
**Reviewed By:**  
Yashkumar Shukla  
Technical Director



*Yashkumar Shukla*  
**Authorized By:**  
Yashkumar Shukla  
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 E30 Exteriors Emulsion Paint	SRI/06/24/1904	0.8715	0.8741	0.8736	0.8731

##### Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Birla Opus Prime E30 Exteriors Emulsion Paint	SRI/06/24/1904	0.925	0.925	0.925	0.925

##### Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
Birla Opus Prime E30 Exteriors Emulsion Paint	SRI/06/24/1904	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 E30 Exteriors Emulsion Paint	SRI/06/24/1904	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( $h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$ )
		42.7	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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- 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.