



Report No: CRDF/RPT/SRI/158

Report Date: 18th May 2015

Report of test carried out by CEPT Research and Development Foundation for Solar Reflectance Index of Supplied Material

The test results of the specimen submitted for Solar Reflectance Index on date 12th May 2015 are as under:

1. Customer Information

- 1.1. **Name of the Organization** : Chitra Insultech Pvt. Ltd.
1.2. **Contact Person** : Mr. Anil Mehta
1.3. **Address** : 202, Sarthak Complex II,
Swastik Cross Road,
Navrangpura,
Ahmedabad - 380009
1.4. **Phone Numbers** : 079 – 26562100 / 9099060973
1.5. **Fax Number** : ---
1.6. **Email** : info@weathertuff.com

2. Sample Details

- 2.1. Sample Identification Number : SRI/05/15/1159
2.3 Date of Test : 16th May 2015
2.4 Name and any other pertinent
Identification of the material (including physical description): Insultech (Solar Heat Re-radiating Coating)
2.5 Thickness of the specimen (Reported) : 6mm
2.6 Thickness as tested : Not Applicable
2.7 Condition of Sample when received : Satisfactory
2.8 Method and Environment used for conditioning (if used) : Not Applicable
2.9 No. of Surfaces : Not Applicable
2.10 The type of surfaces : Not Applicable
2.11 Position of panes (if Multiple Glazed) : Not Applicable
2.12 The position of coating(s) designating faces of the panes as 1, 2, 3 starting from the outer surface of pane 1:
Not Applicable
2.13 The face of the panes (if Coated) : Not Applicable
2.14 Instrument used : Spectrophotometer with integrating sphere with reference material
spectralone & FTIR with IR specular reflection set.
2.15 Boundary Conditions (Test Method) : As per ASTM E 1980-11, EN 673:2011, and EN 410:2011.
2.16 Tested By : Mr. Jigar Patel, Lab Technician



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3. Results of the measurement:

Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Insultech	SRI/05/15/1159	0.7627	0.7633	0.7630	0.7630

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
Insultech	SRI/05/15/1159	0.935	0.935	0.935	0.935

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
		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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
Insultech	SRI/05/15/1159	95	95	95

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature ($^{\circ}\text{C}$)		
		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($h_c=30 \text{ W m}^{-2} \text{ K}^{-1}$)
Insultech	SRI/05/15/1159	51.8	46.3	41.7

4. 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.

Yashkumar Shukla
Technical Director
CEPT Research and Development Foundation

Disclaimer:

1. The CEPT Research and Development Foundation, CEPT University 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.
2. Result relates to the sample tested only. Sample will be destroyed after 7 days of issue of the report unless specified by the customer.
3. Any complains about this report should be communicated in writing within 7 days of issue of the report.
4. 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 advert singeing media without written approval of Director, CEPT Research and Development Foundation, CEPT University.