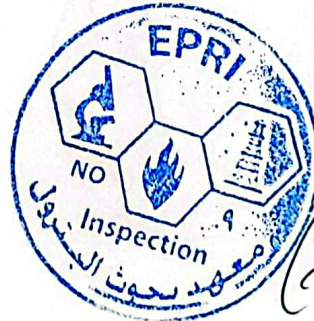


Test report For Damp sheath Roof Guard

Customer: Scib

Date : 12-10-2021

Test	Results	Standards
Carbon dioxide permeability @ DFT 100 μ	0.53 g/m ² day Low permeability (pass)	BS EN1062-6.2002 Method A
Diffusion equivalent air layer thickness in meter (SD)	215 m	
Elongation DFT 200 μ	350 %	ASTM D2370
Tensile strength DFT 200 μ	6.8 N/mm ²	ASTM D2370
Positive hydrostatic water pressure @ 5 Par @total DFT 160 μ	Pass (not affected)	NACE TM 0185 ISO 15741
Pull off @ DFT 100 μ	3.0 MPa	ASTM D4541
Crack bridging @ DFT 100 μ	2.0 mm	ASTM C 1305



Handwritten signature: A. El-Said



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معهد بحوث البترول المصري
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ISO 17025, 14001, 18001, 9001

Test Report of Sample For Scib Company

Solar reflective index and Thermal conductivity of Roof Paint insulation material and k-values

For measurements of **Solar reflective index** and **thermal conductivity**, an own construction test stand was used, which was designed in accordance with the general guidelines presented in ASTM D5470 and literature.

So, the **Roof Paint** sample is tested as insulation materials according to ASTM D5470- and literature.

Sample Properties

Sample Shape: 40x40x cm steel sheet 3mm Painted by **Roof Paint** Material.

Color: White

Receipt date sample: 25/ 08/ 2021

Test Date: 08/08/ 2021.

Insulation Thickness DFT: 300 μ m

Test Duration time: 2 h.

Temperature Test (heater degree): 80 °C (353.15 K) at hot surface

Temperature at cold surface: 55 °C (328.15k) at cold surface





ISO 17025, 14001, 18001, 9001

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Table 1: Thermal conductivity and solar reflective index of insulation Roof Paint
Material - temperature and k- values

Temp. Test at hot side	Temp. Test at cold surface	Transfer temp.	Thermal Conductivity w/mk	ASTM Standard	Remarks
80 °C (355.15 k)	55 °C (328.15k)	32 °C	0.0205x10 ⁻³	D5470-06	Accept

From these results one can be concluded that the results are matched with standard. The efficiency of material is 40.88 % as thermal conductive and 59.12 % as solar reflective index. So that it is Accepted for solar reflective index (Heat reflection) and thermal conductivity (insulation).

SPC Director



Prof. Maher El Sockary

Date: 12/10/2021