Forschungsinstitut für Wärmeschutz e.V. München



Determination of water vapour permeability acc. to DIN EN 12086

Test report no.: R-46/16

Evocell S.r.l., 61022 Talacchio di Colbordolo (PU) Italy Applicant:

Product name: IT-Flex C1 Material designation: 19 mm

Sheet for thermal insulation made of flexible rubberfoam with closed cells and skins Material description:

(acc. to indication) on both sides; Colour: black; Nominal thickness: 19 mm

Samples were sent by applicant to the FIW München in March 2016. Origin of the material:

Sampling by CSI in the plant Evocell, Bellusco on 19.02.2016.

Goods receipt no.: E1862

Test procedure: Determination of water vapour permeability in accordance with DIN EN 12086.

Test conditions according to clause 7.1.A: (23°C, 0/50% r. h.)

Specimen: cylindrical. Diameter: 140 mm.

Conditioning:

Period of testing: March - June 2016

Results: The water vapour diffusion resistance index µ has been tested at five specimens with

an average density of 46 kg/m3:

Specimen no.	thickness d	density	water vapour resistance index	water vapour permeability δ
	mm	kg/m³	μ	kg/(mˈsːPa)
1	19.7	47.6	22180	1.06 · 10 ⁻¹⁴
2	19.7	47.5	19210	1.22 · 10 ⁻¹⁴
3	19.5	47.3	23290	1.01 · 10 ⁻¹⁴
4	19.6	47.1	17160	1.37 · 10 ⁻¹⁴
5	19.7	48.5	20880	1.13 · 10 ⁻¹⁴
average	20	46	20500	1.2 · 10 ⁻¹⁴

Remarks: The measured values are applicable only for the tested specimens with the

thickness d, and the chosen test conditions 23°C, 0/50% r. h..

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Gräfelfing, 14.07.2016

Department specialist

Examiner

Michael Zimmermann

Dipl.-Ing.(FH) Stefan Kutschera Test results only refer to tested objects. The prior written consent of our Institute is required for any publication or reference concerning parts of it. 49 (0)89 8 58 00 -0 · Telefax +49 (0)89 8 58 00 - 40 Forschungsinstitut für Wärmeschutz e. V. München Lochhamer Schlag 4 · 82166 Gräfelfing into@fiw-muenchen.de · www.fiw-muenchen.de