

Determination of water vapour permeability acc. to DIN EN 12086

Test report no.: R-45/15

Applicant: L'ISOLANTE K-FLEX S.p.A., 20877 Roncello (MB), Italien
Product name: K-Flex ST Plus
Material designation: 25 mm
Material description: Sheet for thermal insulation made of flexible rubber foam with closed cells and skins on both sides; Colour: black; Nominal thickness: 25 mm;
Origin of the material: Samples were sent by applicant on 01.04.2015 to the FIW Munich. Sampling by FIW Munich plant Roncello (MB) on 25.03.2015. Goods receipt no.: E585
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. (drycup) Specimen: cylindrical; Diameter: 140 mm
Conditioning: ---
Period of testing: April - July 2015
Results: The water vapour permeability δ has been tested at five specimens with an average density of 49 kg/m³:

Specimen no.	thickness d mm	density kg/m ³	water vapour resistance index μ	water vapour permeability δ kg/(Pa·s·m)
1	25.1	49.2	13800	1.74 · 10 ⁻¹⁴
2	25.2	49.3	12430	1.94 · 10 ⁻¹⁴
3	25.4	49.0	12540	1.92 · 10 ⁻¹⁴
4	24.4	49.4	11700	2.06 · 10 ⁻¹⁴
5	25.5	50.2	11030	2.19 · 10 ⁻¹⁴
average	25	49	12300	2.0 · 10 ⁻¹⁴

Remarks: The measured values are applicable only for the tested specimens with thickness d and the chosen test conditions as specified above.

Gräfelfing, 20.08.2015

Department specialist



Dipl.-Ing.(FH) Stefan Kutschera



Examiner



Michael Zimmermann