

Determination of water vapour permeability acc. to DIN EN 12086

Test report no.: R-46/15

Applicant: L'ISOLANTE K-FLEX S.p.A., 20877 Roncello (MB), Italien
Product name: K-Flex ST Plus
Material designation: 32 mm
Material description: Sheet for thermal insulation made of flexible rubber foam with closed cells and skins on both sides; Colour: black; Nominal thickness: 32 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 - August 2015
Results: The water vapour permeability δ has been tested at five specimens with an average density of 52 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	34.3	51.7	13530	$1.83 \cdot 10^{-14}$
2	34.2	52.0	13770	$1.80 \cdot 10^{-14}$
3	34.1	52.3	13470	$1.83 \cdot 10^{-14}$
4	34.2	52.3	13820	$1.78 \cdot 10^{-14}$
5	33.8	52.3	13630	$1.81 \cdot 10^{-14}$
average	34	52	13600	$1.8 \cdot 10^{-14}$

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

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