

Determination of water vapour permeability acc. to DIN EN 12086

Test report no.: R-44/15

Applicant: L'ISOLANTE K-FLEX S.p.A., 20877 Roncello (MB), Italien

Product name: K-Flex ST Plus

Material designation: 19 mm

Material description: Sheet for thermal insulation made of flexible rubber foam with closed cells and skins on both sides; Colour: black; Nominal thickness: 19 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 53 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	19.0	53.6	11280	$2.08 \cdot 10^{-14}$
2	19.1	53.5	12470	$1.88 \cdot 10^{-14}$
3	19.3	53.3	11020	$2.13 \cdot 10^{-14}$
4	19.4	53.3	11540	$2.04 \cdot 10^{-14}$
5	19.4	53.0	11520	$2.04 \cdot 10^{-14}$
average	19	53	11600	$2.0 \cdot 10^{-14}$

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

Gräfelfing, 20.08.2015

Department specialist



Dipl.-Ing.(FH) Stefan Kutschera



Examiner



Michael Zimmermann