

Determination of water vapour permeability acc. to DIN EN 12086

Test report no.: R-42/15

Applicant: L'ISOLANTE K-FLEX S.p.A., 20877 Roncello (MB), Italien
Product name: K-Flex ST Plus
Material designation: 10 mm
Material description: Sheet for thermal insulation made of flexible rubber foam with closed cells and skins on both sides; Colour: black; Nominal thickness: 10 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 75 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	8.6	74.7	15330	$1.44 \cdot 10^{-14}$
2	8.7	73.6	15570	$1.42 \cdot 10^{-14}$
3	8.6	74.3	15590	$1.42 \cdot 10^{-14}$
4	8.4	76.0	15210	$1.45 \cdot 10^{-14}$
5	8.5	74.8	14920	$1.48 \cdot 10^{-14}$
average	9	75	15300	$1.4 \cdot 10^{-14}$

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