

Determination of water vapour permeability acc. to EN 12086

Test report no.: R-161/17

Applicant: K-Flex Polska Sp. z o.o. Wielenin Kolonia 50b, 99-210 Uniejów

Product name: K-FLEX ST

Material designation: Production day / Code: 0086042271 P

Material description: Sheet for thermal insulation made of flexible rubber foam with closed cells and skins on both sides;
(acc. to indication) Colour: black; Nominal thickness: 25 mm

Origin of the material: Sampling by FIW München in the plant Uniejów on 21.06.2017.
Samples were sent by applicant on 10.07.2017 to the FIW München.
Goods receipt no.: E3319

Test procedure: Determination of water vapour permeability in accordance with EN 12086:2013.
Test conditions according to clause 7.1.A: 23°C-0/50% r. h. (drycup)
Specimen: cylindrical Diameter: 140 mm

Conditioning: ---

Period of testing: August - December 2017

Results: The water vapour permeability δ has been tested at five specimens with a mean density of 52 kg/m³.

specimen no.	thickness d mm	density kg/m ³	water vapour resistance index μ	water vapour permeability δ kg/(m·s·Pa)
1	26.3	51.4	17500	$1.38 \cdot 10^{-14}$
2	25.6	52.1	18220	$1.32 \cdot 10^{-14}$
3	25.6	52.4	18400	$1.31 \cdot 10^{-14}$
4	25.4	52.7	16490	$1.46 \cdot 10^{-14}$
5	25.2	52.9	16460	$1.46 \cdot 10^{-14}$
arithmetic mean	26	52	17400	$1.4 \cdot 10^{-14}$

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.

Gräfelfing, 09.01.2018


Department specialist



Dipl.-Ing. (FH) Stefan Kutschera



Examiner



Michael Zimmermann

Results relate only to the items tested.

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