

**Determination of water vapour permeability acc. to DIN EN 12086**

Test report no.: R-43/15

**Applicant:** L'ISOLANTE K-FLEX S.p.A., 20877 Roncello (MB), Italien  
**Product name:** K-Flex ST Plus  
**Material designation:** 13 mm  
**Material description:** Sheet for thermal insulation made of flexible rubber foam with closed cells and skins on both sides; Colour: black; Nominal thickness: 13 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  $\delta$  has been tested at five specimens with an average density of 51 kg/m<sup>3</sup>:

Specimen no.	thickness d mm	density kg/m <sup>3</sup>	water vapour resistance index $\mu$	water vapour permeability $\delta$ kg/(Pa·s·m)
1	13.1	50.6	14290	$1.59 \cdot 10^{-14}$
2	13.1	53.7	14860	$1.53 \cdot 10^{-14}$
3	13.4	50.5	14690	$1.55 \cdot 10^{-14}$
4	13.1	50.5	13780	$1.65 \cdot 10^{-14}$
5	13.0	51.2	14410	$1.58 \cdot 10^{-14}$
<b>average</b>	<b>13</b>	<b>51</b>	<b>14400</b>	<b><math>1.6 \cdot 10^{-14}</math></b>

**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