

Test Report No. 1.1 / 19336 / 0033.0.1.1-2017e  
This test report replace the test report No. 1.1/19336/0033.0.1-2017e.

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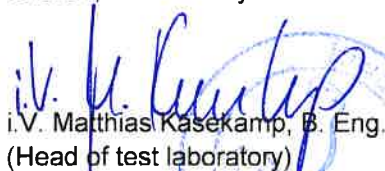
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Project: -  
Factory: -  
Date of order: 04 January 2017  
Test request: Determination of gas transmission rate according to ISO 15105-1 (10.2007) on jointed and unjointed samples with test gases CH<sub>4</sub> and CO<sub>2</sub>  
Material: Composite sheet membrane with nonwoven (white) to one and a coating (blue) to the other side  
a) **Newton Hydrobond GB**  
Number of samples: -  
Sampling: by customer  
Sample delivery date: 25 January 2017  
Test duration: 25 January 2017 - 20 March 2017

Greven, 07 January 2020

  
i.V. Matthias Kasekamp, B. Eng.  
(Head of test laboratory)



  
i.V. Dr. Ing. Melanie Strutz  
(Deputy head of test laboratory)

## Summary of results

Date / Ref. : 07 January 2020 / mk

Order by : Newton Waterproofing Systems, Newton House, 17-19 Sovereign Way, Kent, TN9 1RH, UNITED KINGDOM

Material : Composite sheet membrane with nonwoven (white) to one and a coating (blue) to the other side  
**Newton Hydrobond GB**

Test	Standard	Unit	Result
<b>Determination of gas transmission rate*</b> Test gas: Methane (CH <sub>4</sub> ) Thickness (single layer)* Gas permeability at 23 °C / 0 % r.H. Gas permeability at 23 °C / 0 % r.H. Gas permeability at 23 °C / 0 % r.H. Gas permeability at 23 °C / 0 % r.H.	<b>ISO 15105-1 10.2007</b>	mm cm <sup>3</sup> /(m <sup>2</sup> (with 3.4m joint)·d·bar) ml/(m <sup>2</sup> (with 3.4m joint)·d·atm) cm <sup>3</sup> /(m <sup>2</sup> ·d·bar) ml/(m <sup>2</sup> ·d·atm)	2,04 > 200000 > 202650 0,43 0,44
<b>Determination of gas transmission rate*</b> Test gas: Methane (CO <sub>2</sub> ) Thickness (single layer)* Gas permeability at 23 °C / 0 % r.H. Gas permeability at 23 °C / 0 % r.H.	<b>ISO 15105-1 10.2007</b>	mm cm <sup>3</sup> /(m <sup>2</sup> ·d·bar) ml/(m <sup>2</sup> ·d·atm)	2,04 1,94 1,97

\* The test was performed in an external laboratory.  
Test gas exposed to the white side for all samples.  
Test area for jointed samples 620 cm<sup>2</sup> with 21 cm joint.

