Kiwa GmbH
TBU
Gutenbergstraße 29
48268 Greven

Tel. +49 (0)2571 9872 0
Fax +49 (0)2571 9872 99
infokiwagreven@kiwa.de
www.kiwa.de

Test Report No. 1.1 / 11560 / 1196.0.1-2016e

General

Issued : 24 October 2017

Order by : **BPA-GmbH**
Behringstrasse 12
71083 Herrenberg-Gültstein, GERMANY

Material : PVC membrane (transparent) with one sided PP nonwoven (white)
DualProof 1,0 (Werk I)
(declaration by customer)

Order date : 17 February 2017

Samples delivered : 07 February 2017

Tests	Standard	Issue	Results as Enclosure No.
1. Determination of resistance to hydrostatic pressure	ASTM D 5385	2014	A1

The results apply exclusively to the specimens submitted.
The date of testing is reported on the enclosed enclosure/-es.
Results are reported to the accuracy given in the standards. In statistical evaluation, the measured accuracy is taken.

This test report contains 2 pages and 1 enclosure/-es (enclosure/-es A1).
It may not be published in parts.

kiwa
Partner for progress

Test Report No. 1.1/11560/1196.0.1-2016e page 2

Summary of results

Date / Ref. : 24 October 2017 / mk

Order by : **BPA-GmbH , Behringstrasse 12 , 71083 Herrenberg-Gültstein, GERMANY**

Material : PVC membrane (transparent) with one sided PP nonwoven (white)
DualProof 1,0 (Werk I)
(declaration by customer)

Test	Standard	Unit	Mean x̄	Standard-deviation s	Coef. of variation v in %
Determination of resistance to hydrostatic pressure	**ASTM D 5385 2014**	m	69	-	-

i.V. Dipl.-Ing. (FH) Christoph Staubermann
(Head of test laboratory)

i.V. Matthias Käsekamp, B. Eng.
(Deputy head of test laboratory)

tBU
Geschäftsführer:
Prof. Dr. Roland Hüttl

Amtsgericht Hamburg
HRB 130568
St.Nr.: 4673603268

Determination of resistance to hydrostatic pressure
ASTM D 5385 (2014)

Test Report No. : **1.1/11560/1196.0.1-2016** Date: 09.05.2017
Company : **BPA GmbH**
Material : **DualProof 1,0 (Werk I)**
Operartor : **dw**

Test parameters

Thickness of membrane	: 1,0 mm (declaration by customer)
Test temperature	: 5 °C
Number of specimen	: 3
Width of kerf	: 3,2 mm
Hydrostatic pressure range	: 0 to 690 kPa
Pressure steps	: 103 kPa
Observation time for each step	: 1 h

Results

Sample No.	Passed hydrostatic pressure step [kPa]	Passed head of water [m]
1	690	69,0
2	690	69,0
3	690	69,0
Mean value	690	69,0
Standard deviation	-	-

No leakage could be detected with a load of 690 kPa for 1 h.
This correspond to a head of water of 69 m.

Note : -