Test report | Weighing characteristics

1. Introduction

This test report presents the results of testing conducted to evaluate the influence of various sleeves on weighing measurements using several products/sleeves produced by Filcoflex B.V. These products, hereinafter referred to collectively as the "products" or individually by their specific product name, are used in weighing applications. The tests were performed on March 28, 2021.

The test setup was designed to represent the actual use of the products in a weighing application as closely as possible. For each test, the same weight and scale were used to ensure that any differences in the measurements were influenced as little as possible by external factors. The scale used was an Expondo precision scale with a capacity of 2000 g and an accuracy of 0.01 g.

The products were tested multiple times. Therefore, the values presented in this test report are average values calculated from the results of these repeated tests. As a result, if a similar test is performed, the results may vary slightly. However, all tests were recorded and analyzed, and the results are available upon request.

2. Testing procedure

Described below is a step-by-step overview of the test procedure.

1. Add product and reset scale
   - Before testing each product, the product was placed on the scale and the scale was reset to zero. This ensured that the weight of the product itself was excluded from the measurements.
2. Stabilization
   - To ensure that the product did not influence the measurements, the scale was allowed to stabilize before any test weight was added.
3. Add Weight
   - A test weight of 100 grams (g) was added to the scale to evaluate the influence of the product on the measured process weight.
4. Stabilization
   - To accurately measure the product's response time to the added weight, the scale was allowed to stabilize before the measurement was recorded.
5. Remove Weight
   - The test weight was removed from the scale to evaluate the product's "loss-in-weight" response, which is an important parameter in various production processes.
6. Stabilization
   - As with the weight addition test, the scale was allowed to stabilize after removing the weight. Once a stable measurement was obtained, the response time and loss-in-weight measurement were recorded.

3. Testing summary and background

This chapter provides an explanation of the test results in relation to the intended application of the products. It also discusses the types of applications for which the products are suitable.

3.1 Test Context

The test procedure evaluates the products under multiple operating conditions. Therefore, both the addition and removal of weight during the tests serve a specific purpose.

By adding a weight to the scale underneath the product, the "process weight addition" is evaluated. This test measures both the deviation between the actual added weight and the weight indicated by the scale, as well as the response time of the product to this change. Based on these measurements, the accuracy of each product can be determined. This information can be used to assess which product is most suitable for a specific application.

By removing the weight, the "loss-in-weight" performance is evaluated. For example, when filling a bag with 100 g of product, a weighing system may determine the dispensed quantity by measuring the weight loss of the storage vessel located above it, such as a hopper. Theoretically, the measured weight after dispensing 100 g should equal the original weight minus 100 g. In practice, however, the flexible connector may influence the measurement due to its mechanical properties. This test quantifies the extent to which the product affects the accuracy of the loss-in-weight measurement.

3.2 Reaction Time

In addition to the weight deviation, the reaction time of each product is determined during both the weight addition and weight removal tests. The reaction time is defined as the time required for the measurement displayed by the scale to stabilize after a change in load.

The reaction time is related to the dimensional stability and material memory of the product. Products with greater dimensional stability and stronger material memory generally require more time to stabilize, as they tend to return to their original shape after deformation.

Reaction time is an important parameter when determining the suitability of a product for a specific process line. Different processes require different measurement speeds, meaning that some products may be more suitable than others depending on the required stabilization time.

3.3 Applications

The products evaluated in this study can be used as flexible connections in a wide range of industrial applications, including dosing equipment, loss-in-weight feeders, packaging equipment, and systems for the transport of air, powders, or other bulk materials.

The selection of the most suitable product depends on the required weighing accuracy, response time, process conditions, and mechanical requirements of the application.



Fig. 1 - Loss-in-weight feeder

4. Reference tests

Before testing the products, Filcoflex B.V. first verified the accuracy of the scale by performing reference tests. In this test, as well as during the actual tests with the products, 100 g weight was used.

The reference tests were conducted to determine the influence of the scale on the test results.

Please note that the scale and weight used for the reference test are the exact same as the ones used during the tests with the products.

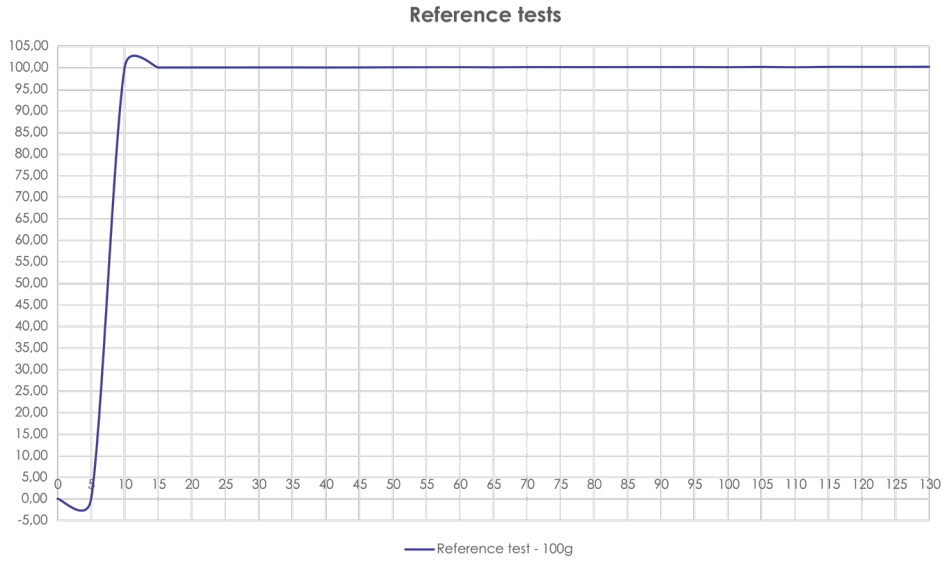


Fig. 2 - Reference test line chart

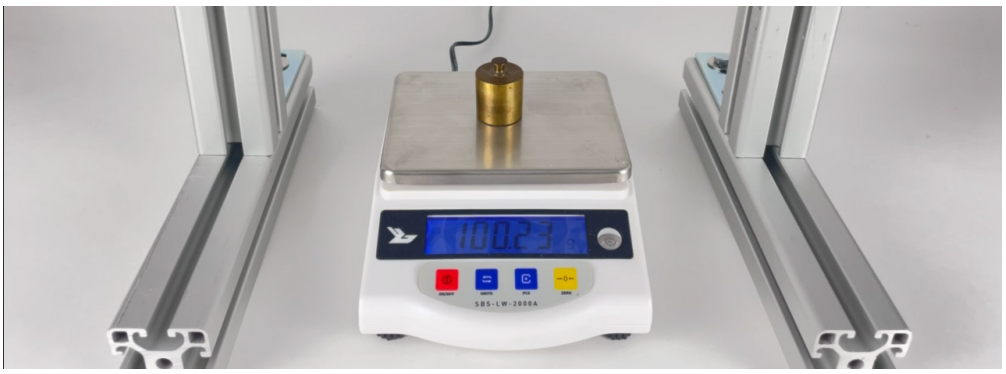


Fig. 3 - Reference test setup

5. Silicone weighing bellows

For the silicone weighing bellows, Filcoflex B.V. tested three different products. For each product a list of its specifications, a table with results and a line chart will be shown. At the end of this chapter a summary for these products can be found and in chapter 9, a total summary all tested products can be found.

5.1 Classic white weighing bellow

Properties

Name:	Silicone weighing bellow white classic spherical
Description:	SIL BG W
Hardness:	60° Shore A (± 5° shore tolerance)
Color:	White/translucent
Elongation to failure:	240%
Temperature resistance:	-60°C to 200°C -76°F to 392°F
Maximum surge temperature:	220°C / 428°F
Pressure resistance:	Silicone weighing bellows are meant to be used in atmospheric applications.

Test results

Stabilisation time (s) Added weight (Process weight addition)	4,33
Stabilisation time (s) Removed weight (Loss-in-weight)	4,90
Average weight difference (g) Added weight (Process weight addition)	0,13
Average weight difference (g) Removed weight (Loss-in-weight)	0,00
Axial flexibility[1]	★★★
Lateral flexibility[1]	★★★

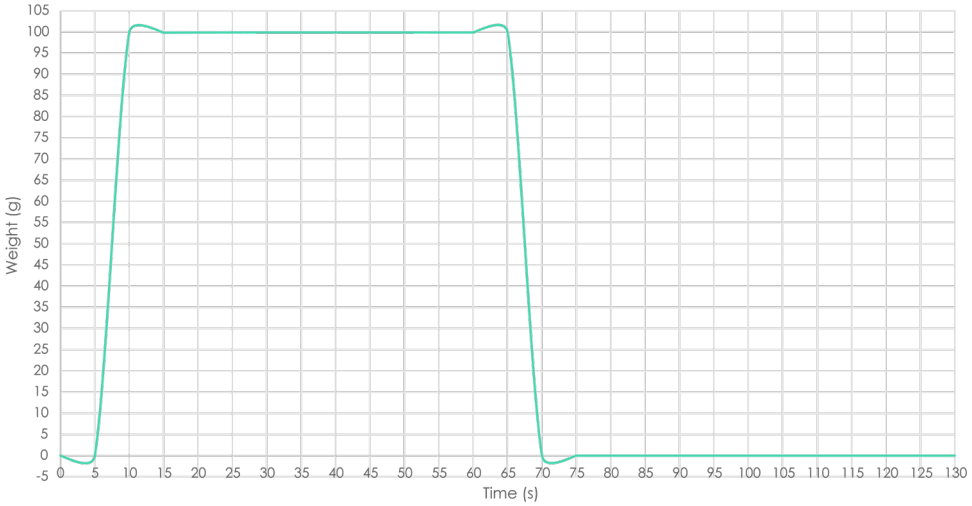


Fig. 4 - Line chart silicone weighing bellows spherical white



Test setup

Product

Fig. 5 - Silicone weighing bellows spherical white test setup and product

[1] The axial flexibility was measured along the vertical axis, while the lateral flexibility was measured along the horizontal axis. The flexibility ratings are based on a three-step rating scale, further explained on page 5.

5.2 Classic Antistatic black weighing bellow

Properties

Name:	Silicone weighing bellow conductive black FDA
Description:	SIL BG B
Hardness:	60° Shore A (± 5° shore tolerance)
Color:	Black
Elongation to failure:	250%
Temperature resistance:	-60°C to 200°C -76°F to 392°F
Maximum surge temperature:	220°C / 428°F
Pressure resistance:	Silicone weighing bellows are meant to be used in atmospheric applications.
Electrostatic resistance	< 10^6 Ω

Test results

Stabilisation time (s) Added weight (Process weight addition)	7,52
Stabilisation time (s) Removed weight (Loss-in-weight)	8,07
Average weight difference (g) Added weight (Process weight addition)	2,58
Average weight difference (g) Removed weight (Loss-in-weight)	0,95
Axial flexibility[1]	★★★
Lateral flexibility[1]	★★★

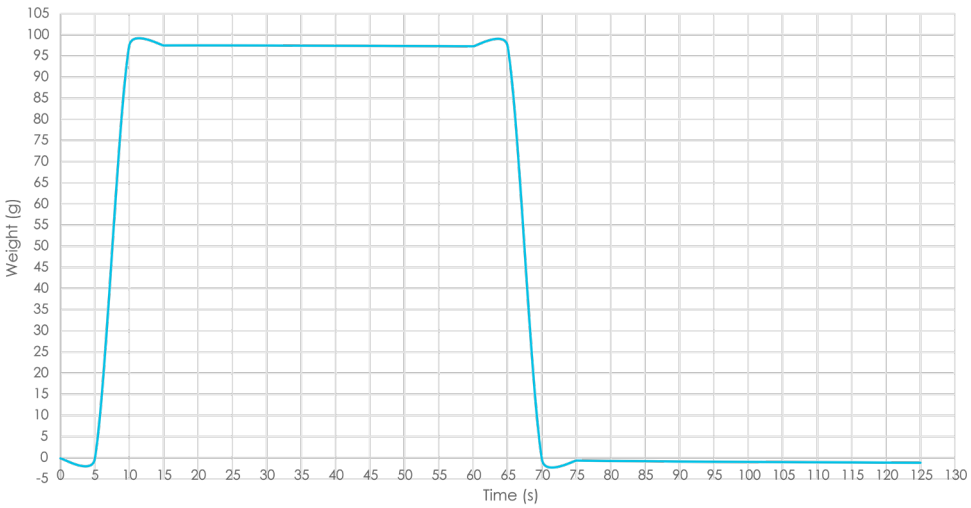


Fig. 6 - Line chart silicone weighing bellows spherical black antistatic



Test setup



Product

Fig. 7 - Silicone weighing bellows spherical black antistatic test setup and product

5.3 Assymetrical conical white weighing bellow

Properties

Name:	Silicone weighing bellow assymetrical conical white
Description:	SIL BG AC W
Hardness:	60° Shore A (± 5° shore tolerance)
Color:	White/translucent
Elongation to failure:	240%
Temperature resistance:	-60°C to 200°C -76°F to 392°F
Maximum surge temperature:	220°C / 428°F
Pressure resistance:	Silicone weighing bellows are meant to be used in atmospheric applications.

Test results

Stabilisation time (s) Added weight (Process weight addition)	23,53
Stabilisation time (s) Removed weight (Loss-in-weight)	6,57
Average weight difference (g) Added weight (Process weight addition)	1,20
Average weight difference (g) Removed weight (Loss-in-weight)	0,15
Axial flexibility[1]	★★
Lateral flexibility[1]	★★

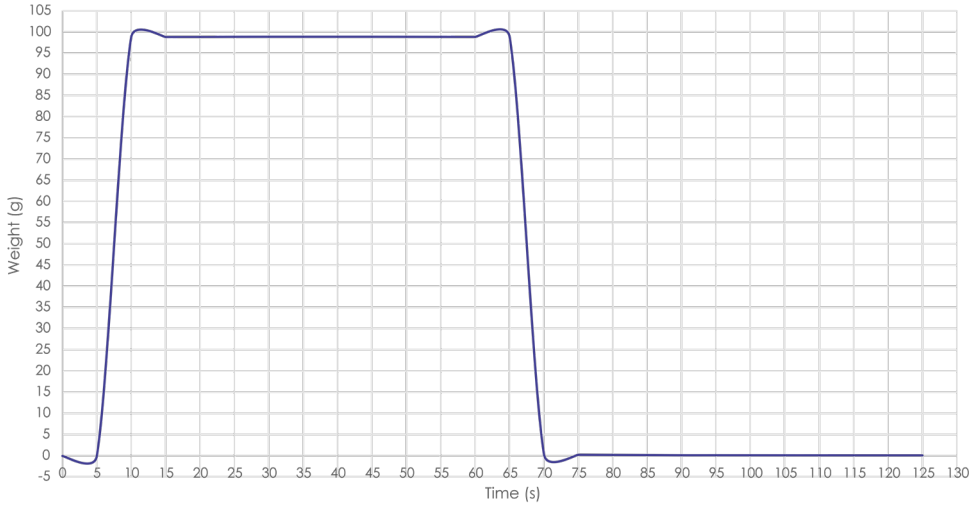
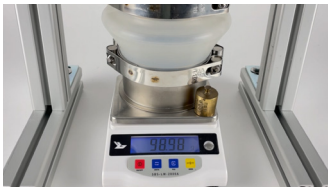


Fig. 8 - Line chart silicone weighing bellows assymetrical conical white



Test setup



Product

Fig. 9 - Silicone weighing bellows assymetrical conical white test setup and product

5.4 Summary silicone weighing bellows

	SIL BG W	SIL BG B	SIL BG AC W
Stabilisation time (s) Added weight (Process weight addition)	4,33	7,52	23,53
Stabilisation time (s) Removed weight (Loss-in-weight)	4,90	8,07	6,57
Average weight difference (g) Added weight (Process weight addition)	0,13	2,58	1,20
Average weight difference (g) Removed weight (Loss-in-weight)	0,00	0,95	0,15
Axial flexibility[1]	★★★	★★★	★★
Lateral flexibility[1]	★★★	★★★	★★

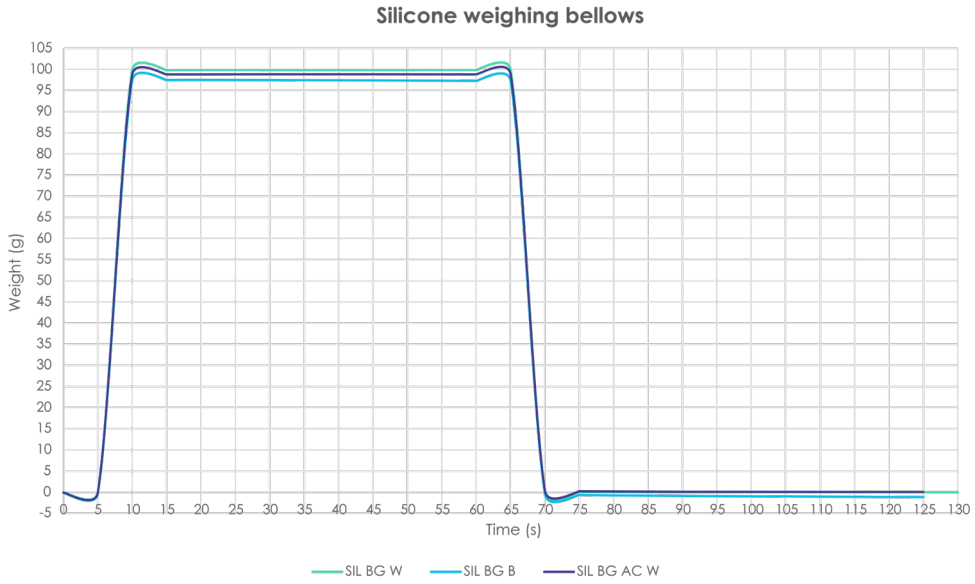


Fig. 10 - Line chart silicone weighing bellows summary

6. Poly urethane[4] weighing bellows

For the Poly urethane weighing bellows, Filcoflex B.V. tested five different products. For each product a list of its specifications, a table with results and a line chart will be shown. At the end of this chapter a summary for these products can be found and in chapter 9, a total summary all tested products can be found.

[4] Within this test report, the material Poly urethane will also be referred to as "PU."

6.1 Classic Poly urethane weighing bellow - PU-UF07 & PU-UF1

Properties

Name:	Poly urethane weighing bellows classic PU-UF07 & PU-UF1
Description:	PU BG PU07 PU1
Hardness:	86° Shore A
Color:	Transparent/clear
Elongation to failure:	600%
Temperature resistance:	-40°C to 90°C -40°F to 194°F
Maximum surge temperature:	PU-UF07: 100°C / 212°F PU-UF1: 120°C / 248°F
Pressure resistance:	PU-UF07: 0,2 Bar / 2,9 PSI PU-UF1: -0,2 Bar to 0,34 Bar / -2.9 PSI to 4.9 PSI

Test results

Stabilisation time (s) Added weight (Process weight addition)	7,34
Stabilisation time (s) Removed weight (Loss-in-weight)	5,96
Average weight difference (g) Added weight (Process weight addition)	2,57
Average weight difference (g) Removed weight (Loss-in-weight)	1,26
Axial flexibility[1]	★★★
Lateral flexibility[1]	★★★

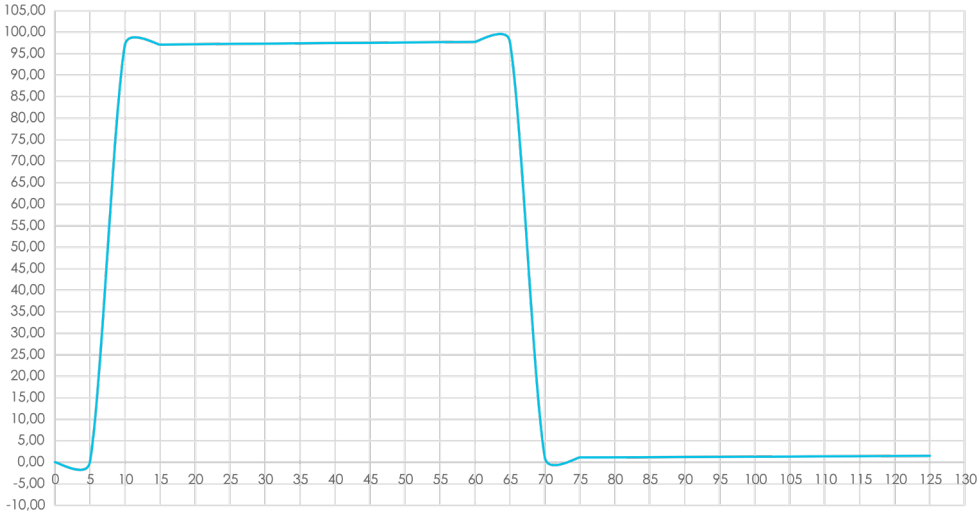


Fig. 11 - Line chart Classic Poly urethane weighing bellow - PU-UF07 & PU-UF1



Test setup



Product

Fig. 12 - Classic Poly urethane weighing bellow - PU-UF07 & PU-UF1 test setup and product

6.2 Classic Poly urethane weighing bellow - PU-UF1 & PU-UF15

Properties

Name:	Poly urethane weighing bellows classic PU-UF1 & PU-UF15
Description:	PU BG PU1 PU15
Hardness:	86° Shore A
Color:	Transparent/clear
Elongation to failure:	PU-UF1: 600% PU-UF15: 60%
Temperature resistance:	-40°C to 90°C -40°F to 194°F
Maximum surge temperature:	120°C / 248°F
Pressure resistance:	-0,2 Bar to 0,34 Bar -2.9 PSI to 4.9 PSI

Test results

Stabilisation time (s) Added weight (Process weight addition)	5,47
Stabilisation time (s) Removed weight (Loss-in-weight)	12,56
Average weight difference (g) Added weight (Process weight addition)	11,32
Average weight difference (g) Removed weight (Loss-in-weight)	5,98
Axial flexibility[1]	★★★
Lateral flexibility[1]	★★★

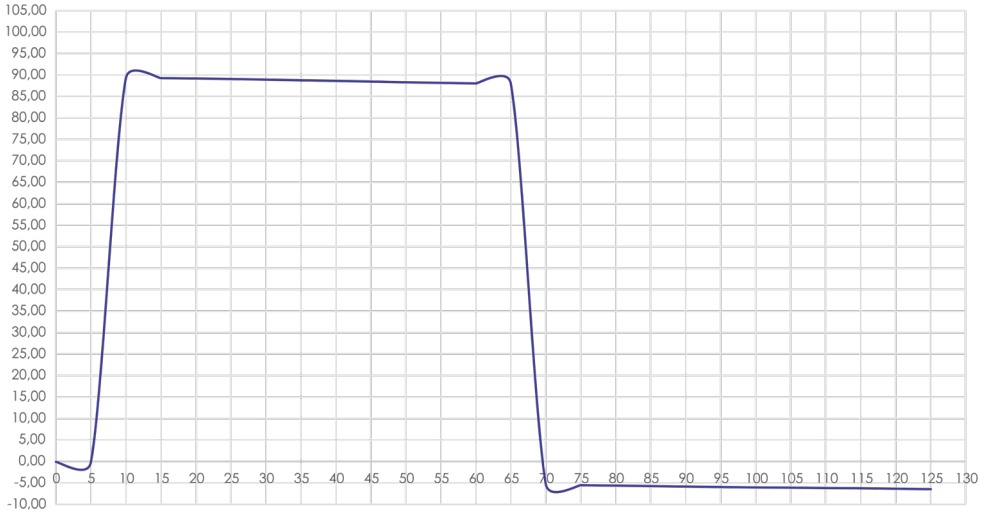


Fig. 13 - Line chart Classic Poly urethane weighing bellow - PU-UF1 & PU-UF15



Test setup



Product

Fig. 14 - Classic Poly urethane weighing bellow - PU-UF1 & PU-UF15 test setup and product

6.3 Conical flat top Poly urethane weighing bellow

Properties

Name:	Poly urethane weighing bellows Conical flat top
Description:	PU BG CFT PU03 PU1
Hardness:	86° Shore A
Color:	Transparent/clear
Elongation to failure:	PU-UF03: 200% PU-UF1: 600%
Temperature resistance:	-40°C to 90°C -40°F to 194°F
Maximum surge temperature:	PU-UF03: 100°C / 212°F PU-UF1: 120°C / 248°F
Pressure resistance:	PU-UF03: 0,1 Bar / 1.5 PSI PU-UF1: -0,2 Bar to 0,34 Bar / -2.9 PSI to 4.9 PSI

Test results

Stabilisation time (s) Added weight (Process weight addition)	2,33
Stabilisation time (s) Removed weight (Loss-in-weight)	4,83
Average weight difference (g) Added weight (Process weight addition)	0,12
Average weight difference (g) Removed weight (Loss-in-weight)	0,14
Axial flexibility[1]	★
Lateral flexibility[1]	★

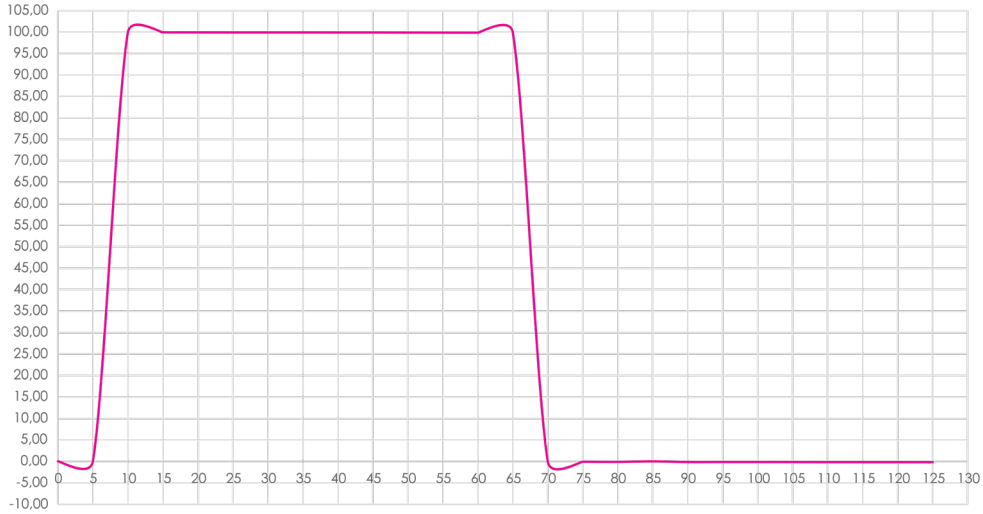


Fig. 15 - Line chart conical flat top Poly urethane weighing bellow



Test setup **Product**

Fig. 16 - Conical flat top Poly urethane weighing bellow test setup and product

6.4 Assymetrical conical Poly urethane weighing bellow

Properties

Name:	Poly urethane weighing bellows Assymetrical Conical
Description:	PU BG AC PU07
Hardness:	86° Shore A
Color:	Transparent/clear
Elongation to failure:	600%
Temperature resistance:	-40°C to 90°C -40°F to 194°F
Maximum surge temperature:	100°C / 212°F
Pressure resistance:	0,2 Bar / 2,9 PSI

Test results

Stabilisation time (s) Added weight (Process weight addition)	3,67
Stabilisation time (s) Removed weight (Loss-in-weight)	8,10
Average weight difference (g) Added weight (Process weight addition)	3,88
Average weight difference (g) Removed weight (Loss-in-weight)	1,81
Axial flexibility[1]	★★
Lateral flexibility[1]	★★

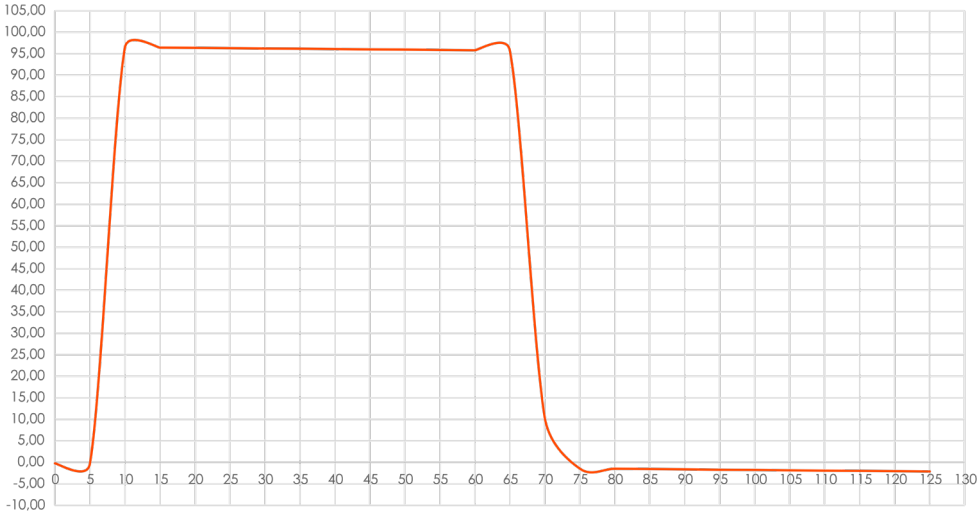


Fig. 17 - Line chart assymetrical conical Poly urethane weighing bellow



Test setup



Product

Fig. 18 - Assymetrical conical Poly urethane weighing bellow test setup and product

6.5 Poly urethane step weighing bellow

Properties

Name:	Poly urethane step weighing bellows
Description:	PU 555-RR 3prt
Hardness:	86° Shore A
Color:	Transparent/clear
Elongation to failure:	PU-UF03: 200% PU-UF1: 600%
Temperature resistance:	-40°C to 90°C -40°F to 194°F
Maximum surge temperature:	PU-UF03: 100°C / 212°F PU-UF1: 120°C / 248°F
Pressure resistance:	PU-UF03: 0,1 Bar / 1.5 PSI PU-UF1: -0,2 Bar to 0,34 Bar / -2.9 PSI to 4.9 PSI

Test results

Stabilisation time (s) Added weight (Process weight addition)	3,97
Stabilisation time (s) Removed weight (Loss-in-weight)	2,21
Average weight difference (g) Added weight (Process weight addition)	0,15
Average weight difference (g) Removed weight (Loss-in-weight)	0,05
Axial flexibility[1]	★★
Lateral flexibility[1]	★★

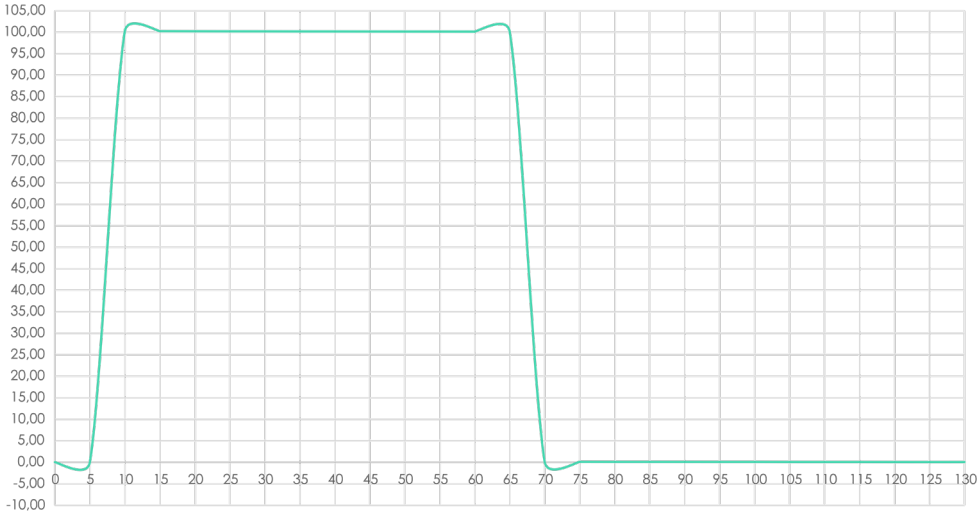


Fig. 19 - Line chart step weighing bellow Poly urethane



Test setup **Product**

Fig. 20 - Step weighing bellow Poly urethane test setup and product

6.6 Summary Poly urethane weighing bellows

	PU BG PU07 PU1	PU BG PU1 PU15	PU BG CFT PU03 PU1	PU BG AC PU07	PU 555-RR 3prt
Stabilisation time (s) Added weight (Process weight addition)	7,34	5,47	2,33	3,67	3,97
Stabilisation time (s) Removed weight (Loss-in-weight)	5,96	12,56	4,83	8,10	2,21
Average weight difference (g) Added weight (Process weight addition)	2,57	11,32	0,12	3,88	0,15
Average weight difference (g) Removed weight (Loss-in-weight)	1,26	5,98	0,14	1,81	0,05
Axial flexibility[1]	★★★	★★★	★	★★	★★
Lateral flexibility[1]	★★★	★★★	★	★★	★★



Fig. 21 - Line chart Poly urethane weighing bellows summary

7. Cylindrical sleeves

For the cylindrical sleeves, Filcoflex B.V. tested two different products. For each product a list of its specifications, a table with results and a line chart will be shown. At the end of this chapter a summary for these products can be found and in chapter 9, a total summary all tested products can be found.

7.1 Cylindrical sleeve Poly urethane

Properties

Name:	Poly urethane cylindrical sleeve - Ø100mm L150mm
Description:	550-FF PU03
Hardness:	86° Shore A
Color:	Transparent/clear
Elongation to failure:	-
Temperature resistance:	-40°C to 90°C -40°F to 194°F
Maximum surge temperature:	316°C / 600°F
Pressure resistance:	0,1 Bar / 1.5 PSI

Test results

Stabilisation time (s) Added weight (Process weight addition)	2,27
Stabilisation time (s) Removed weight (Loss-in-weight)	3,82
Average weight difference (g) Added weight (Process weight addition)	1,30
Average weight difference (g) Removed weight (Loss-in-weight)	1,83
Axial flexibility[1]	★★★
Lateral flexibility[1]	★★★

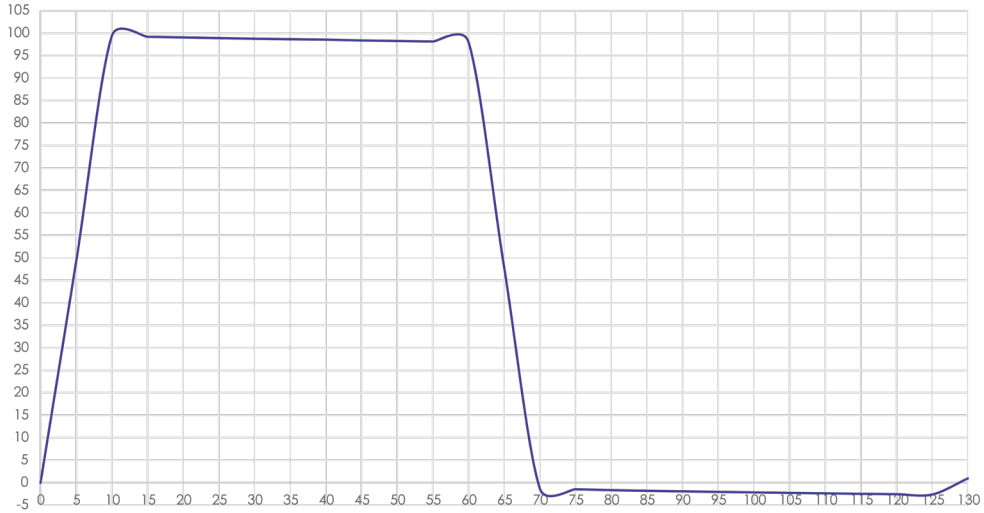
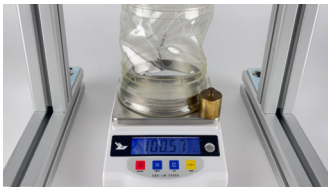


Fig. 22 - Line chart cylindrical sleeve Poly urethane



Test setup



Product

Fig. 23 - Cylindrical sleeve Poly urethane test setup and product

7.2 Cylindrical sleeve PTFE 310 woven permeable fabric

Properties

Name:	PTFE 310 woven permeable fabric cylindrical sleeve - Ø100mm L150mm
Description:	550-FF PTFE310
Hardness:	96° Shore A
Color:	White
Elongation to failure:	200%
Temperature resistance:	-60°C to 300°C -76°F to 572°F
Maximum surge temperature:	100°C / 212°F
Pressure resistance:	0,34 Bar / 5.0 PSI

Test results

Stabilisation time (s) Added weight (Process weight addition)	17,50
Stabilisation time (s) Removed weight (Loss-in-weight)	5,45
Average weight difference (g) Added weight (Process weight addition)	6,64
Average weight difference (g) Removed weight (Loss-in-weight)	0,25
Axial flexibility[1]	★★★
Lateral flexibility[1]	★★★

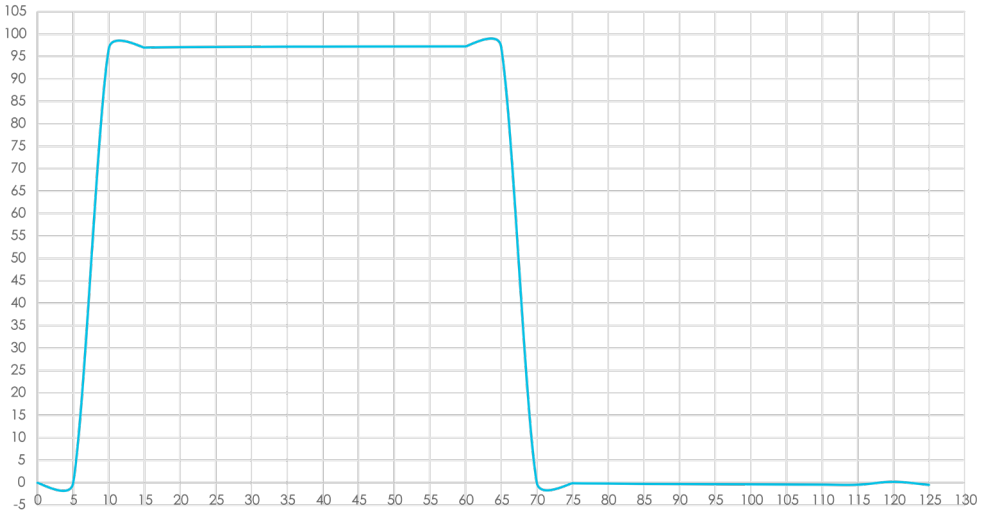


Fig. 24 - Line chart cylindrical sleeve PTFE 310



Test setup



Product

Fig. 25 - Cylindrical sleeve PTFE 310 test setup and product

7.3 Summary Cylindrical sleeves

	550-FF PU03	550-FF PTFE310
Stabilisation time (s) Added weight (Process weight addition)	2,27	17,50
Stabilisation time (s) Removed weight (Loss-in-weight)	3,82	5,45
Average weight difference (g) Added weight (Process weight addition)	1,30	6,64
Average weight difference (g) Removed weight (Loss-in-weight)	1,83	0,25
Axial flexibility[1]	★★★	★★★
Lateral flexibility[1]	★★★	★★★

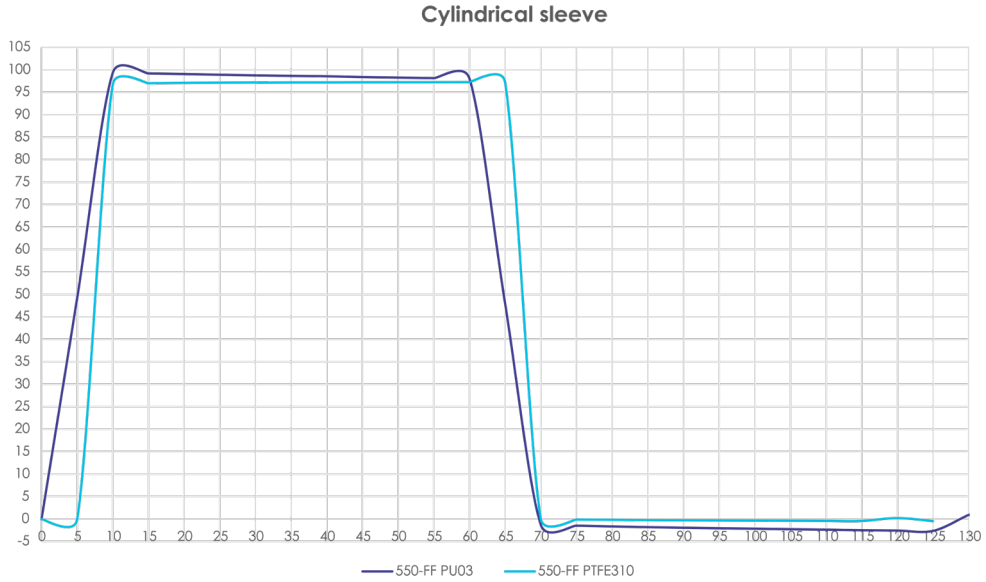


Fig. 26 - Line chart cylindrical sleeves summary

8. Flexibility rating

The flexibility rating shown in the test result tables is based on the flexibility of the product while still maintaining reliable performance. As shown in the table below, the flexibility rating is divided into a three-level rating scale. These ratings can also be found in certain product- or material-specific documents.

★★★	0 - 2 mm
★★	0 - 1 mm
★	0 mm

Name: Werner van Loon
Function: Managing Director
Date: 05/06/2026



Disclaimer
These tests were performed on March 28, 2021, and the information contained herein is believed to be accurate as of the date of testing. If any changes are made to the product or its manufacturing process, this information may no longer be valid. As stated previously, the results presented in this document are calculated averages; therefore, retesting may produce slightly different values.

The manner in which our products, technical assistance, and information are used — whether verbal, written, or provided through production evaluations, including any suggested formulations or recommendations — is beyond our control. Therefore, it is essential that you test our products to determine their suitability for your specific processing conditions and intended applications. Your evaluation should include testing to determine suitability from technical, health, safety, environmental, and regulatory perspectives.

All information, including technical assistance, is provided without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume all responsibility and hereby expressly release, indemnify, and hold us harmless from any liability, whether in tort, contract, or otherwise, incurred in connection with the use of our products, technical assistance, or information. Any statement or recommendation not contained herein is unauthorized and shall not be binding upon us. Nothing contained herein shall be construed as a recommendation to use any product in conflict with any patent claim relating to any material or its use. No license is implied or granted under the claims of any patent.

9. Appendix

The following table summarizes all products within the Filcoflex B.V. product range that are suitable for weighing applications and presents their corresponding test results.

TBD	To be determined - the relevant product has not yet been subjected to testing. Such tests can be conducted upon request.
PWA	Process weight addition - Test result measured after the addition of the weight load
LIW	Loss-in-weight - Test result measured after the removal of the weight load

As stated previously, the results presented in this test report are based on the average of the measured test results. Therefore, minor deviations may occur when the tests are repeated under similar conditions.

Code	Product
SIL BG W	Silicone weighing bellow white classic spherical
SIL BG B	Silicone weighing bellow black antistatic classic spherical
SIL BG AC W	Silicone weighing bellow assymetrical conical whire
HECHT TRI	Silicone weighing bellow HECHT Tri-clamp connection
HECHT KLB	Silicone weighing bellow HECHT Hose clamp connection
PU BG PU07	Poly urethane weighing bellow classic spherical - PU-UF07
PU BG PU07 PU1	Poly urethane weighing bellow classic spherical - PU-UF7 & PU-UF1
PU BG PU1	Poly urethane weighing bellow classic spherical - PU-UF1
PU BG PU1 PU15	Poly urethane weighing bellow classic spherical - PU-UF1 & PU-UF15
PU BG CFT PU03 PU1	Poly urethane weighing bellow conical flat top - PU-UF03 & PU-UF1
PU BG AC PU1	Poly urethane weighing bellow assymetrical conical - PU-UF1
PU BG AC PU07	Poly urethane weighing bellow assymetrical conical - PU-UF7
COM SIF 040	Competing weighing bellow snap in flexible PU040
555-RR 3prt PU03 PU1	Step weighing bellow Ø100 Ø200 - PU-UF03 & PU-UF1
555-RR 3prt PU03 PU1 Ø100 Ø150	Step weighing bellow Ø100 Ø150 - PU-UF03 & PU-UF1
555-RR PU1	Step weighing bellow Ø100 Ø200 - PU-UF1
555-RR PU1 Ø100 Ø150	Step weighing bellow Ø100 Ø150 - PU-UF1
555-RR PU07	Step weighing bellow Ø100 Ø200 - PU-UF07
555-RR PU07 Ø100 Ø150	Step weighing bellow Ø100 Ø150 - PU-UF07
555-RR PU05	Step weighing bellow Ø100 Ø200 - PU-UF05
555-RR PU05 Ø100 Ø150	Step weighing bellow Ø100 Ø150 - PU-UF05
555-RR PU15	Step weighing bellow Ø100 Ø200 - PU-UF15
555-RR PU15 Ø100 Ø150	Step weighing bellow Ø100 Ø150 - PU-UF15
550-FF PU03	Cylindrical sleeve Ø100 L150 - PU-UF03
550-FF PU05	Cylindrical sleeve - PU-UF05
550-FF PU07	Cylindrical sleeve - PU-UF07
550-FF PU1	Cylindrical sleeve - PU-UF1
550-FF PU15	Cylindrical sleeve - PU-UF15
550-FF PTFE310	Cylindrical sleeve Ø100 L150 - PTFE 310 woven permeable fabric

Code	Stabilization time (s)		Weighing influence (g)		Axial flexibility	Lateral flexibility
	PAW	LIW	PAW	LIW		
SIL BG W	4,33	4,90	0,13	0,00	★★★	★★★
SIL BG B	7,52	8,07	2,58	0,95	★★★	★★★
SIL BG AC W	23,53	6,57	1,20	0,15	★★	★★
HECHT TRI	TBD	TBD	TBD	TBD	★★★	★★★
HECHT KLB	TBD	TBD	TBD	TBD	★★★	★★★
PU BG PU07	TBD	TBD	TBD	TBD	★★★	★★★
PU BG PU07 PU1	7,34	5,96	2,57	1,26	★★★	★★★
PU BG PU1	TBD	TBD	TBD	TBD	★★★	★★★
PU BG PU1 PU15	5,47	12,56	11,32	5,98	★★★	★★★
PU BG CFT PU03 PU1	2,33	4,83	0,12	0,14	★	★
PU BG AC PU1	TBD	TBD	TBD	TBD	★★	★★
PU BG AC PU07	3,67	8,10	3,88	1,81	★★	★★
COM SIF 040	TBD	TBD	TBD	TBD	TBD	TBD
555-RR 3prt PU03 PU1	3,97	2,21	0,15	0,05	★★	★★
555-RR 3prt PU03 PU1 Ø100 Ø150	TBD	TBD	TBD	TBD	★★	★★
555-RR PU1	TBD	TBD	TBD	TBD	TBD	TBD
555-RR PU1 Ø100 Ø150	TBD	TBD	TBD	TBD	TBD	TBD
555-RR PU07	TBD	TBD	TBD	TBD	TBD	TBD
555-RR PU07 Ø100 Ø150	TBD	TBD	TBD	TBD	TBD	TBD
555-RR PU05	TBD	TBD	TBD	TBD	TBD	TBD
555-RR PU05 Ø100 Ø150	TBD	TBD	TBD	TBD	TBD	TBD
555-RR PU15	TBD	TBD	TBD	TBD	TBD	TBD
555-RR PU15 Ø100 Ø150	TBD	TBD	TBD	TBD	TBD	TBD
550-FF PU03	2,27	3,82	1,30	1,83	★★★	★★★
550-FF PU05	TBD	TBD	TBD	TBD	TBD	TBD
550-FF PU07	TBD	TBD	TBD	TBD	TBD	TBD
550-FF PU1	TBD	TBD	TBD	TBD	TBD	TBD
550-FF PU15	TBD	TBD	TBD	TBD	TBD	TBD
550-FF PTFE310	17,50	5,45	6,64	0,25	★★★	★★★

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