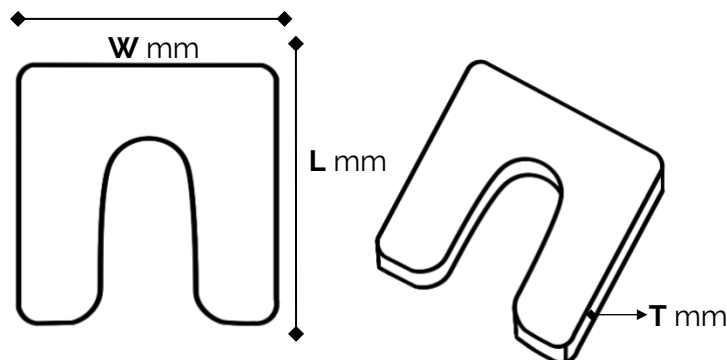


# Type ESL Packer

Colour	T mm	W mm	L mm
Black	2	70	70
Black	3	70	70
Black	5	70	70
Black	7	70	70
Black	9	70	70
Black	10	70	70
Black	20	70	70



### Processing:

The below data has been taken from our raw material data sheet.

Injection Moulding

*\*Not to scale, all dimensions nominal*

Physical	Test Method	Values
Specific Gravity	ISO 1183	12
Melt Flow Index (220°C, 10kg)	ISO 1133	38 g/10min
Water Absorption	ISO 62	-%
Mold Shrinkage	ISO 294-4	0.5 – 0.8%

Mechanical	Test Method	Values
Tensile Strength (at yield)	ISO 527	46Mpa
Elongation (at break)	ISO 527	20%
Flexural Strength	ISO 178	73 Mpa
Flexural Modulus	ISO 178	2,500 Mpa
Izod Impact Strength (23°C)	ISO 180/1A	21 KJ/m <sup>2</sup>
Charpy Impact Strength (23°C)	ISO 179/1eA	22 KJ/m <sup>2</sup>

Thermal	Test Method	Values
Heat Deflection Temperature (1.8 Mpa, Unannealed)	ISO 75-2	80°C
Heat Deflection Temperature (0.45 Mpa, Unannealed)	ISO 75-2	91°C
Vicat Softening Temperature (B50)	ISO 306	95°C

Flammability	Test Method	Values
Flame Rating – UL (1.6mm)	UL 94	HB

a) Injection molded specification according to ISO 294.

*All product specifications and data are subject to change without notice*

The data contained in this datasheet is believed to be accurate and is reproduced in good faith. This is based on material we use and can differ/alter subjected to material availability/extenuation circumstances. It is the customers responsibility to validate that a particular product described herein is suitable for use in their application.

FinnsWorth disclaim any and all liability for any errors, inaccuracies or incompleteness contained in this datasheet. In addition, FinnsWorth makes no warranty, representation or guarantee regarding the suitability of the product described by the datasheet for any particular or associated purpose.

Unit 2, Drury Way Industrial Estate, Laxton Close,  
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Email : [enquiries@finnsworth.com](mailto:enquiries@finnsworth.com)  
Website : [www.finnsworth.com](http://www.finnsworth.com)

Version 2 July 2023

# TEST CERTIFICATE

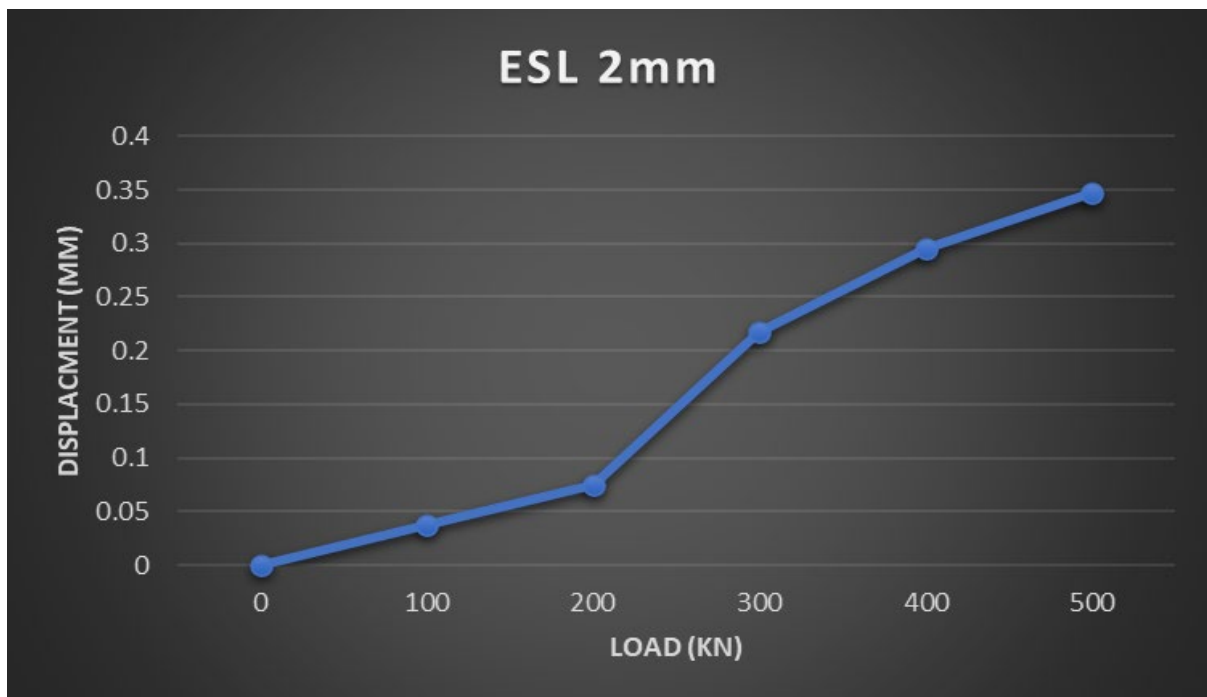
## Load Testing of Shims

**Client:**  
Finnsworth Limited  
Unit 2, Drury Way Industrial Estate,  
Laxcon Close,  
London  
NW10 0TG

Report No: 68403/1  
Job No: PN68403

Date Tested: 1<sup>st</sup> December 2022  
Date Reported: 1<sup>st</sup> December 2022

**Test Reference** ESL 2mm  
**Base Material:** ABS  
**Dimensions:** Total base size: 70x70x2mm  
**Test Specification:** Load test to 500kN



Load (kN)	0	100	200	300	400	500
Displacement (mm)	0	0.04	0.07	0.22	0.30	0.35

**DARREN MANSELL**  
Business Unit Manager

\*Testing outside of UKAS certification

# TEST CERTIFICATE

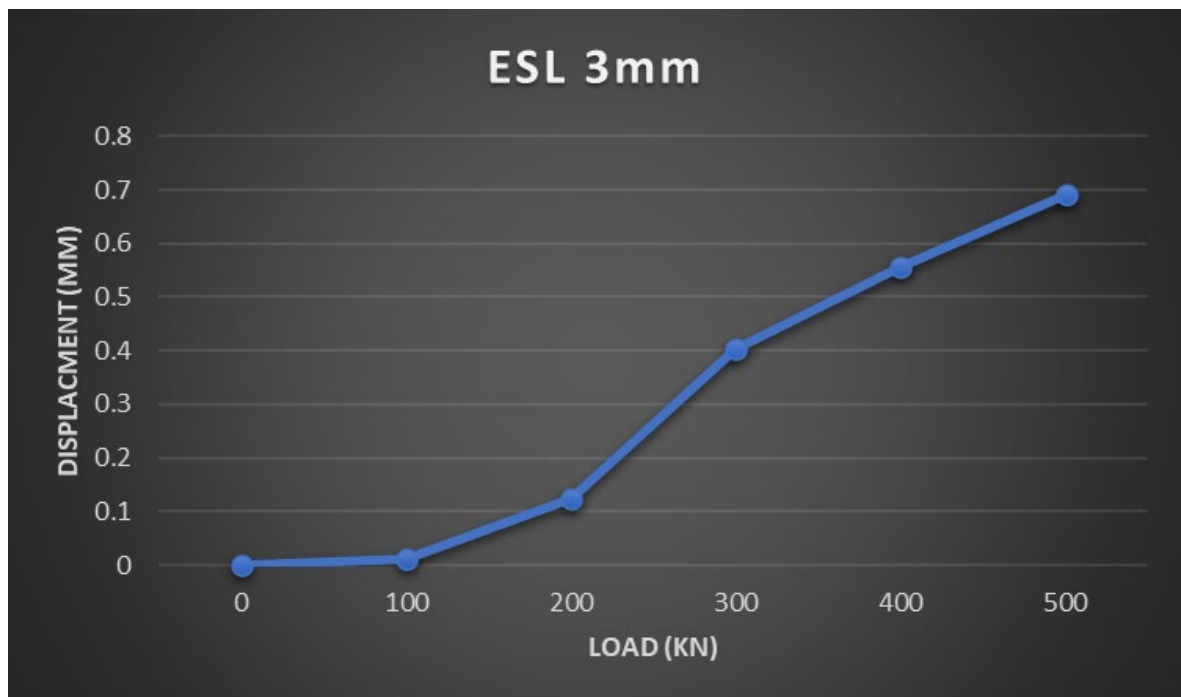
## Load Testing of Shims

**Client:**  
Finnsworth Limited  
Unit 2, Drury Way Industrial Estate,  
Laxcon Close,  
London  
NW10 0TG

Report No: 68403/1  
Job No: PN68403

Date Tested: 1<sup>st</sup> December 2022  
Date Reported: 1<sup>st</sup> December 2022

**Test Reference** ESL 3mm  
**Base Material:** ABS  
**Dimensions:** Total base size: 70x70x3mm  
**Test Specification:** Load test to 500kN



Load (kN)	0	100	200	300	400	500
Displacement (mm)	0	0.01	0.13	0.40	0.56	0.69

**DARREN MANSELL**  
Business Unit Manager

\*Testing outside of UKAS certification

# TEST CERTIFICATE

## Load Testing of Shims

**Client:**

Finnsworth Limited  
Unit 2, Drury Way Industrial Estate,  
Laxcon Close,  
London  
NW10 0TG

Report No: 68403/1

Job No: PN68403

Date Tested: 1<sup>st</sup> December 2022

Date Reported: 1<sup>st</sup> December 2022

**Test Reference**

ESL 5mm

**Base Material:**

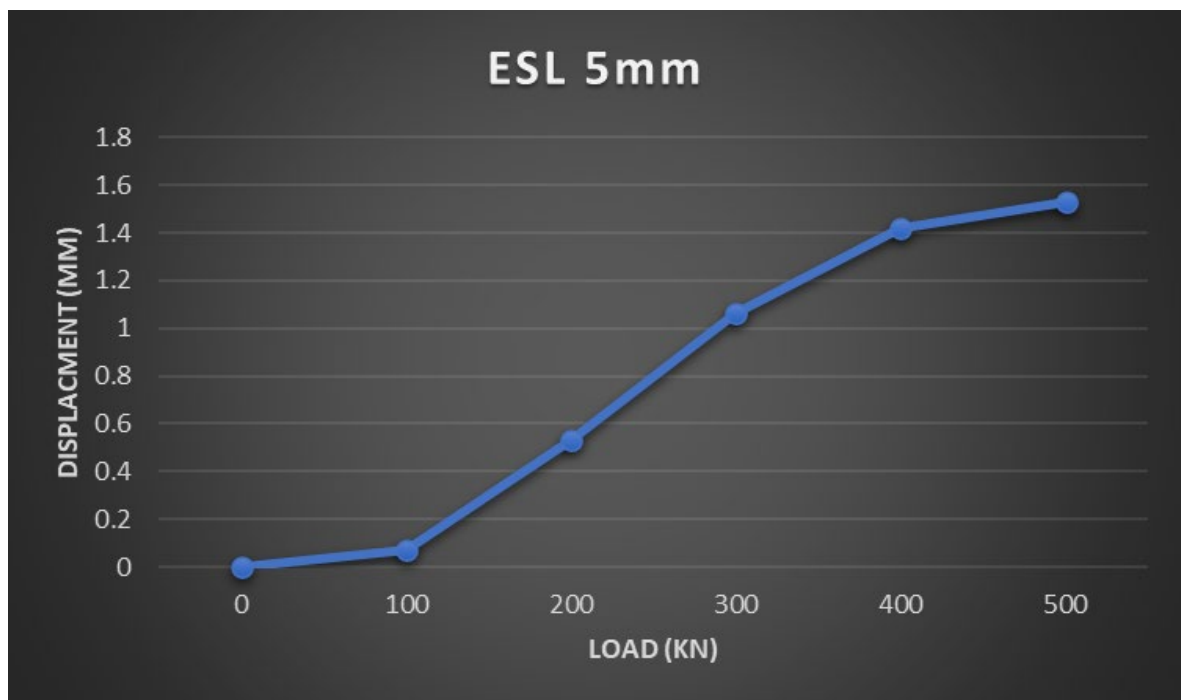
ABS

**Dimensions:**

Total base size: 70x70x5mm

**Test Specification:**

Load test to 500kN



Load (kN)	0	100	200	300	400	500
Displacement (mm)	0	0.07	0.53	1.07	1.42	1.53

**DARREN MANSELL**  
Business Unit Manager

\*Testing outside of UKAS certification

# TEST CERTIFICATE

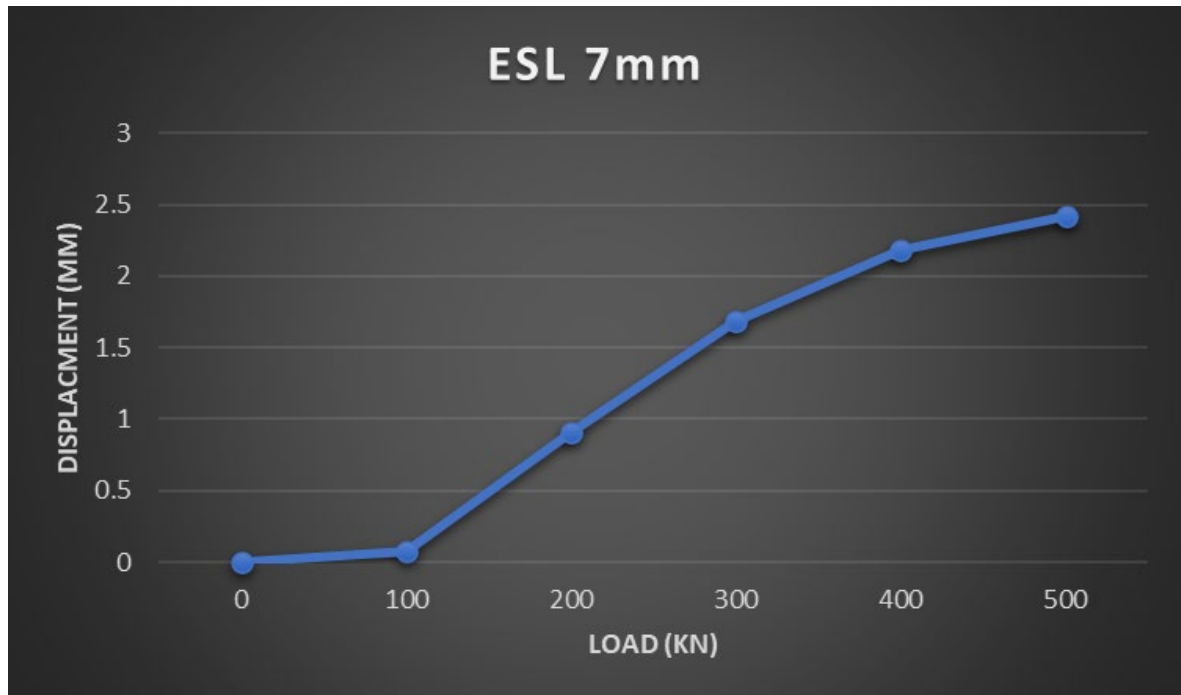
## Load Testing of Shims

**Client:**  
Finnsworth Limited  
Unit 2, Drury Way Industrial Estate,  
Laxcon Close,  
London  
NW10 0TG

Report No: 68403/1  
Job No: PN68403

Date Tested: 1<sup>st</sup> December 2022  
Date Reported: 1<sup>st</sup> December 2022

**Test Reference** ESL 7mm  
**Base Material:** ABS  
**Dimensions:** Total base size: 70x70x7mm  
**Test Specification:** Load test to 500kN



Load (kN)	0	100	200	300	400	500
Displacement (mm)	0	0.08	0.91	1.69	2.18	2.42

**DARREN MANSELL**  
Business Unit Manager

\*Testing outside of UKAS certification

# TEST CERTIFICATE

## Load Testing of Shims

**Client:**  
Finnsworth Limited  
Unit 2, Drury Way Industrial Estate,  
Laxcon Close,  
London  
NW10 0TG

Report No: 68403/1  
Job No: PN68403

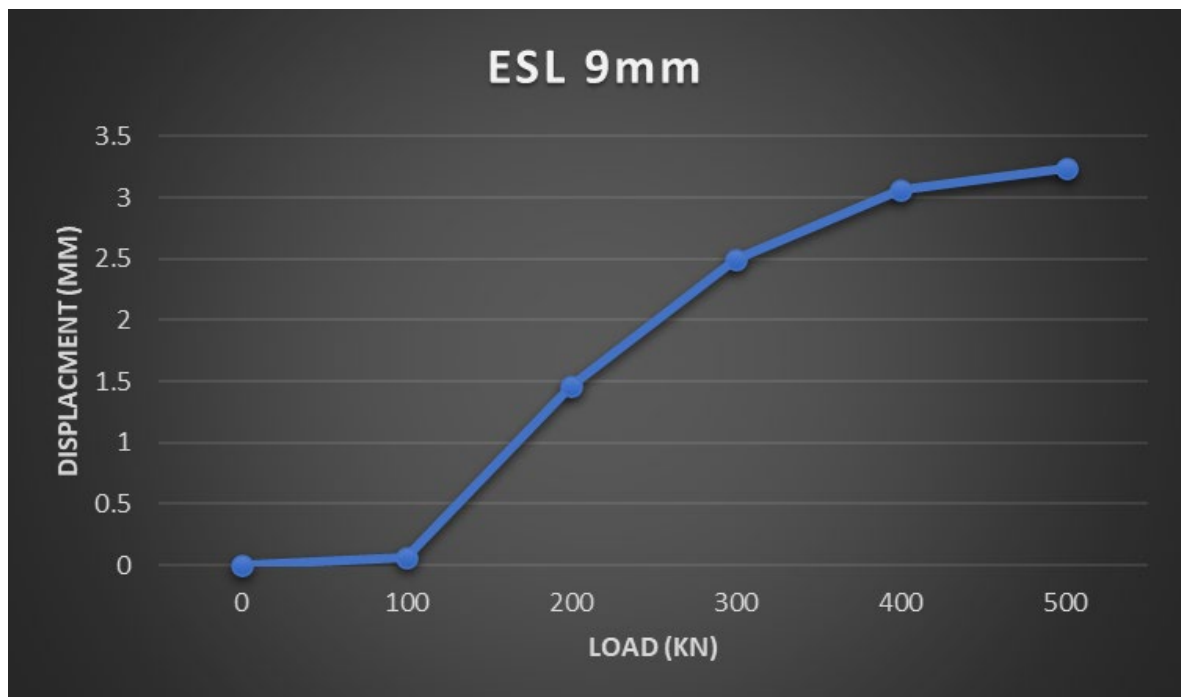
Date Tested: 1<sup>st</sup> December 2022  
Date Reported: 1<sup>st</sup> December 2022

**Test Reference** ESL 9mm

**Base Material:** ABS

**Dimensions:** Total base size: 70x70x9mm

**Test Specification:** Load test to 500kN



Load (kN)	0	100	200	300	400	500
Displacement (mm)	0	0.06	1.46	2.5	3.06	3.24

**DARREN MANSELL**  
Business Unit Manager

\*Testing outside of UKAS certification

# TEST CERTIFICATE

## Load Testing of Shims

**Client:**  
Finnsworth Limited  
Unit 2, Drury Way Industrial Estate,  
Laxcon Close,  
London  
NW10 0TG

Report No: 68403/1  
Job No: PN68403

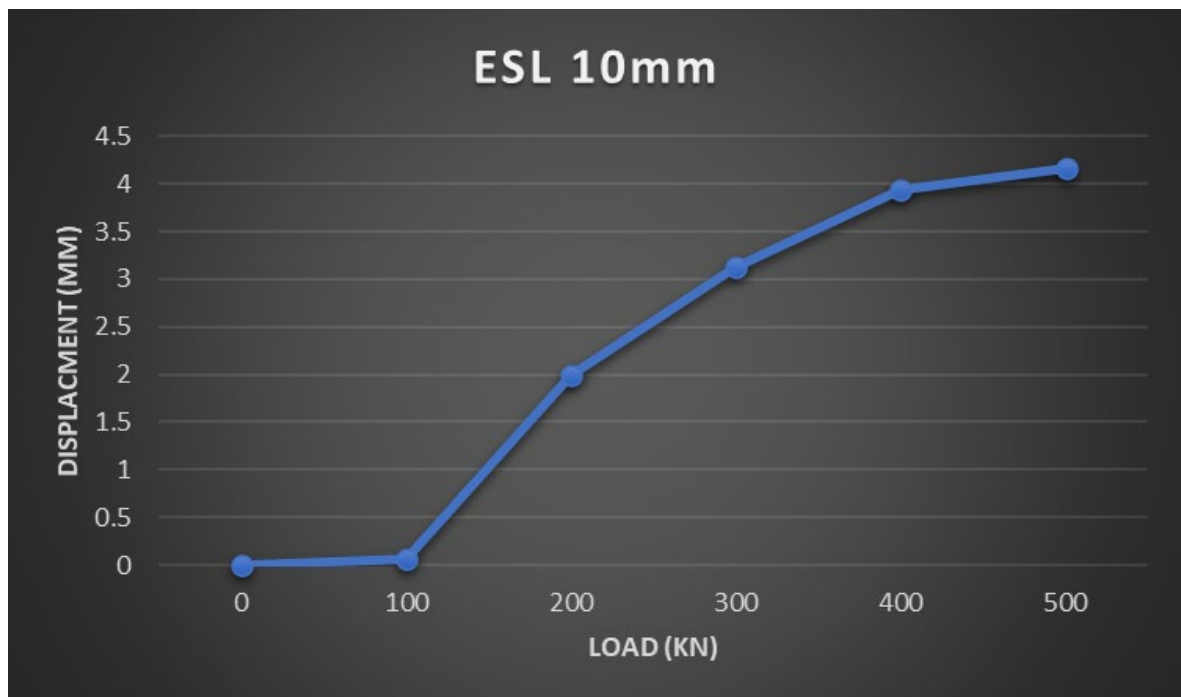
Date Tested: 1<sup>st</sup> December 2022  
Date Reported: 1<sup>st</sup> December 2022

**Test Reference** ESL 10mm

**Base Material:** ABS

**Dimensions:** Total base size: 70x70x10mm

**Test Specification:** Load test to 500kN



Load (kN)	0	100	200	300	400	500
Displacement (mm)	0	0.06	1.99	3.13	3.94	4.17

**DARREN MANSELL**  
Business Unit Manager

\*Testing outside of UKAS certification