

SIMONA



Business Line Advertising & Building

Product solutions in advertising & building applications



SIMONA® CELPLAST

Our CELUKA foam sheet offering
exceptional flatness

SIMONA® CELPLAST sheet

PRODUCT BENEFITS AT A GLANCE

SIMONA® CELPLAST integral foam sheet

- + Light but sturdy**
CELPLAST sheets not only have a high degree of dimensional stability and rigidity, but also enable considerable weight savings thanks to their light design. As a result, products made from SIMONA® CELPLAST impress with their easy handling and lower transport and shipping costs.
- + Superior flatness**
As a CELUKA foam sheet, SIMONA® CELPLAST also offers very precise thickness tolerance across its entire width.

Areas of application

BUILDING

- Room installations and design
- Furniture construction
- Bathroom and wet areas

EXHIBITION CONSTRUCTION, SHOP DESIGN

- Shelves
- Display design
- Signage (screen printing/foil lamination)

PANELS AND LININGS FOR

- Vehicle interior fittings
- Caravans
- Shipbuilding
- Modelling

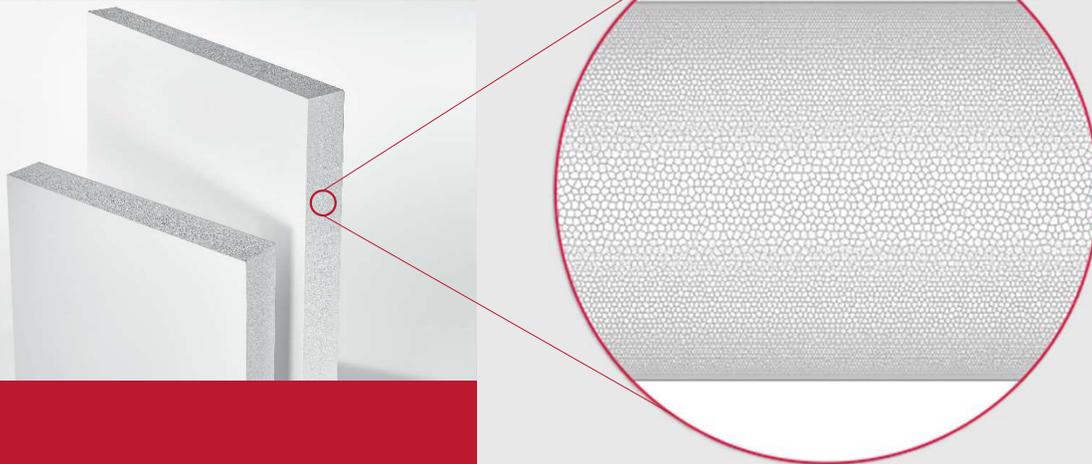
MOBILE LIVING AND WORKING

- Container lining
- Mobile homes



Manufactured to the most stringent tolerances

SIMONA® CELPLAST



Product properties

- High rigidity and stability
- High quality satin hard surface
- Extremely light and easy to handle
- Moisture and mildew resistant (no edge swelling)
- Insect resistant
- Dimensionally stable
- Chemical and corrosion resistant
- Good insulation properties
- Recommended for indoor use
- Low coefficient of linear thermal expansion
- Favorable fire behaviour
- Manufactured using the Celuka process, whereby the foam structure has a very fine pore pattern even in the middle of the panel

Colour

- Bright white

Standard product range SIMONA® CELPLAST

Extruded sheets (size/thickness in mm)

| | | |
|---|---------------|----------|
|  | 3,050 x 1,220 | 10 to 24 |
|---|---------------|----------|

Other dimensions and thicknesses on request

SIMONA® CELPLAST sheet

Other data - reaction to fire

| | |
|---|----------------------|
| Density, g/cm³, DIN EN ISO 1183 | 0.50 |
| Tensile modulus of elasticity, MPa, DIN EN ISO 527 | 600 |
| Yield stress, MPa, DIN EN ISO 527 | 9 |
| Elongation at yield, %, DIN EN ISO 527 | 12 |
| Flexural modulus of elasticity, MPa, DIN EN ISO 178 | 900 |
| Flexural strength, MPa, DIN EN ISO 178 | 18 |
| Impact strength, kJ/m², DIN EN ISO 179 | 8 |
| Shore hardness D (15 s), DIN EN ISO 868 | 60 |
| Ball indentation hardness, MPa, DIN EN ISO 2039-1 | 15 |
| Resistance to withdrawal of screws, N, on basis of DIN EN 320, out of edge | 4500 |
| Resistance to withdrawal of screws, N, on basis of DIN EN 320, out of surface | 1500 - 2400 |
| Mean coefficient of linear thermal expansion, K-1, ISO 11359-2 | $0,7 \times 10^{-4}$ |
| Surface resistivity, Ohm, DIN IEC 60093 | $\geq 10^{13}$ |
| Temperature range, °C | 0 to +60 |
| Fire behaviour DIN EN ISO 13501, | B s2 d0 |

Thickn. 10-24mm

TEST REPORT

TR12323498
20.01.2023

EUROLAB LABORATUVAR A.Ş.





Inspection & Testing Laboratory

Test Result : B,s2,d0

Report No/ Rapor No : 2023012020

Applicant/Deney Sahibi : SIMONA PLASTECH LEVHA SAN. A.Ş.

Contact Person / Yetkili : Onur SIMIT

Contact Telephone / Telefon : +380 553 80 08

Contact e-mail / E-Posta : onur.simit@simona-group.com

Sample Accepted on / Numune Tarihi : 24.12.2022

Report Date / Rapor Tarihi : 20.01.2023

Total number of pages/Rapor Sayfa : 5(Pg)

Sample ID : CELPLAST 10 mm PVC FOAM

| | TEST | METHOD | RESULT | | |
|---|--|------------|--------|----|----|
| * | Fire classification of construction products and building elements-Part 1: Classification using test data from reaction to fire tests. | EN 13501-1 | PASS | | |
| | | | B | s2 | d0 |

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.

This result, method and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test Request Form (TR02-PT)" provided to us from the Applicant. This result is valid for the sample as described above. Sample may not represent the full extent of the sample. This Report does not replace a Product Certificate, PDI Report or any part of it and may not be used for any other purpose without the written permission of EUROLAB Laboratories. Samples have not been seen by us. Samples and created Reports are treated as evidence and should only be used in the scope of our Accreditation Certificate issued from IAF according to ISO 17025:2017. Tests, Analysis are performed in the laboratory conditions using accredited and reliable according to ISO 17025:2017. IECI from our facilities with codes may also exist with starting of a related pages. These and involving services will be listed in specified terms & conditions at the relevant order request form. Physically, chemically and microbiologically measured results are based on laboratory sampling of the original sample. Analysis are not done on any page in this Report. Results are shown in this Report in accordance with Measurement Uncertainty, Measurement Uncertainty (MPE) and/or Measurement Uncertainty (MPE) assessment of the test results shown in the Report. Validity of the test results using Measurement Uncertainty is the responsibility of the Applicant.

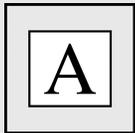
PROFPO/08.10.2019/Rev1/01.2019/01

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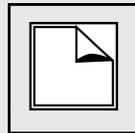
Adress: Merkez Mh, Dr Sadık Ahmet Cd, No 38/44, Bağcılar, İstanbul, Türkiye
Contact: www.laboratuvar.com e-mail: info@laboratuvar.com

Processing options for SIMONA PVC foam sheets

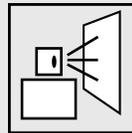
SUPERIOR PROCESSABILITY



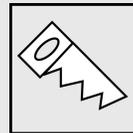
Printing



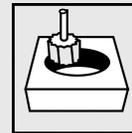
Backing,
laminating



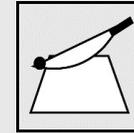
Spray-painting



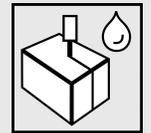
Sawing



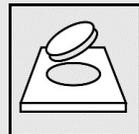
Milling



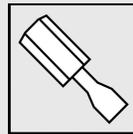
Cutting



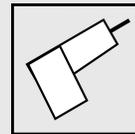
Water-jet
cutting



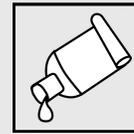
Die-cutting



Bolting



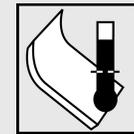
Drilling



Glueing



Cold forming



Warm bending

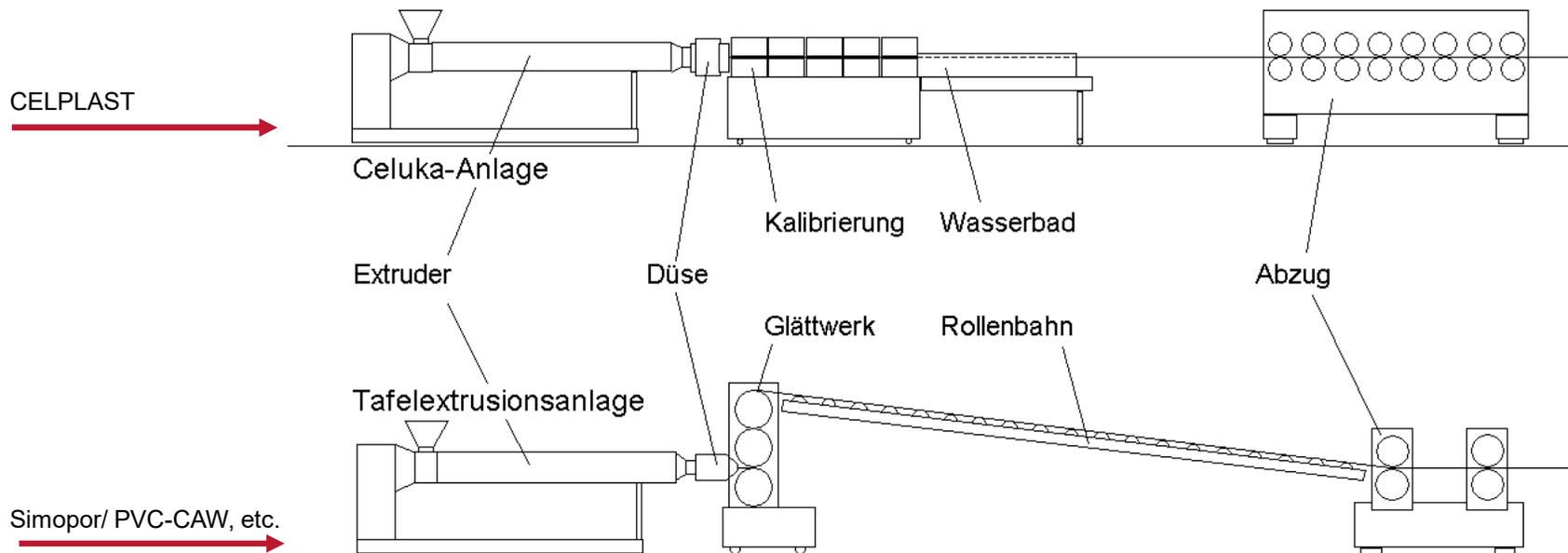


Production process

Production process

From raw material to end-product

Production



SIMONA

THANK YOU.

SIMONA AG

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