



SIMONA® CELPLAST

Our CELUKA foam sheet offering
exceptional flatness

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

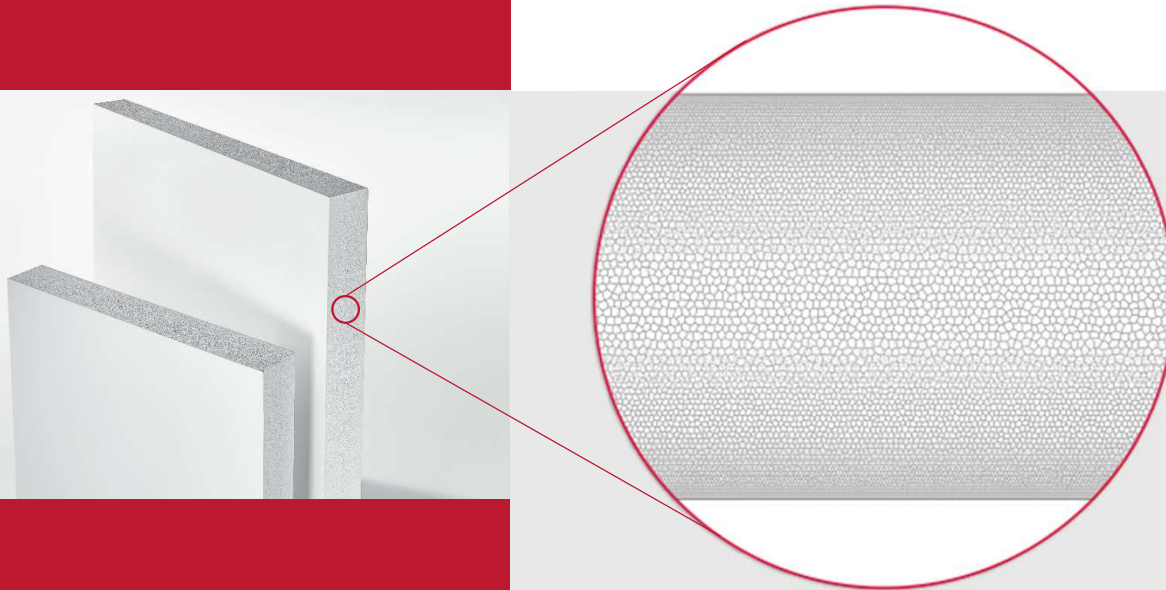
MOBILE LIVING AND WORKING

- 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
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Other dimensions and thicknesses on request

SIMONA® CELPLAST sheet

Other data - reaction to fire

Density, g/cm ³ , 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/m ² , 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 x 10 ⁻⁴
Surface resistivity, Ohm, DIN IEC 60093	≥ 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
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
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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, methods and other information about the sample shown in the relevant pages of this Report are based on the information classified in accordance with "Test Request Form (TR12323498)" provided to us from the Applicant. Test results are valid for the samples as identified above. Samples may not represent the lot which is being. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Samples may not show the lot. Original and corrected features are marked. Samples as referenced with "P" are in the State of our Accreditation Certificate issued from IAF according to the EN ISO/IEC 17025, 17025, analysis as indicated with "M" are performed at the external laboratories using accredited test methods according to EN ISO/IEC 17025. These items will include each item and also with details of its tested places. Values and measuring samples will be listed in specified forms & conditions at their request under original form (Physical, chemical and microbiological) decomposed samples are described regardless of the storage period. Applicant can not claim any right in this report. Results are shown in this Report do not include Measurement Uncertainty value. Measurement Uncertainty values are not based in consideration during final assessment of the test results shown in this Report. Evaluation of the test results using Measurement Uncertainty value is the responsibility of the Applicant.

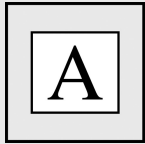
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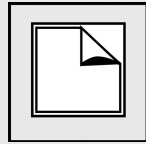
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Processing options for SIMONA PVC foam sheets

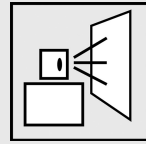
SUPERIOR PROCESSABILITY



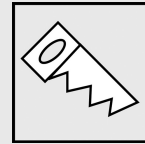
Printing



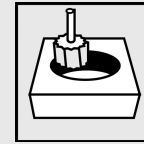
Backing,
laminating



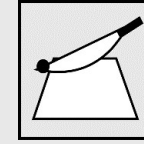
Spray-painting



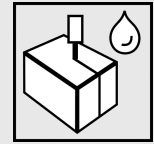
Sawing



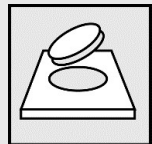
Milling



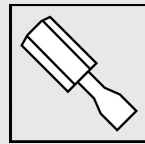
Cutting



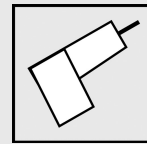
Water-jet
cutting



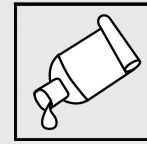
Die-cutting



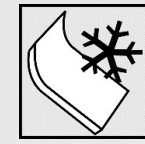
Bolting



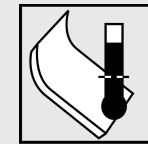
Drilling



Glueing



Cold forming



Warm bending



Production process

Production process

From raw material to end-product

Production

