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

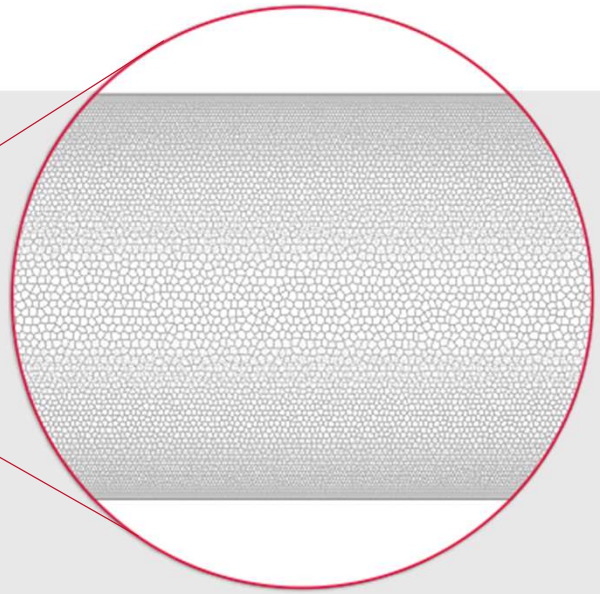
EXHIBITION CONSTRUCTION, SHOP DESIGN
- Shelves
- Display design
- Signage (screen printing/foil lamination)

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

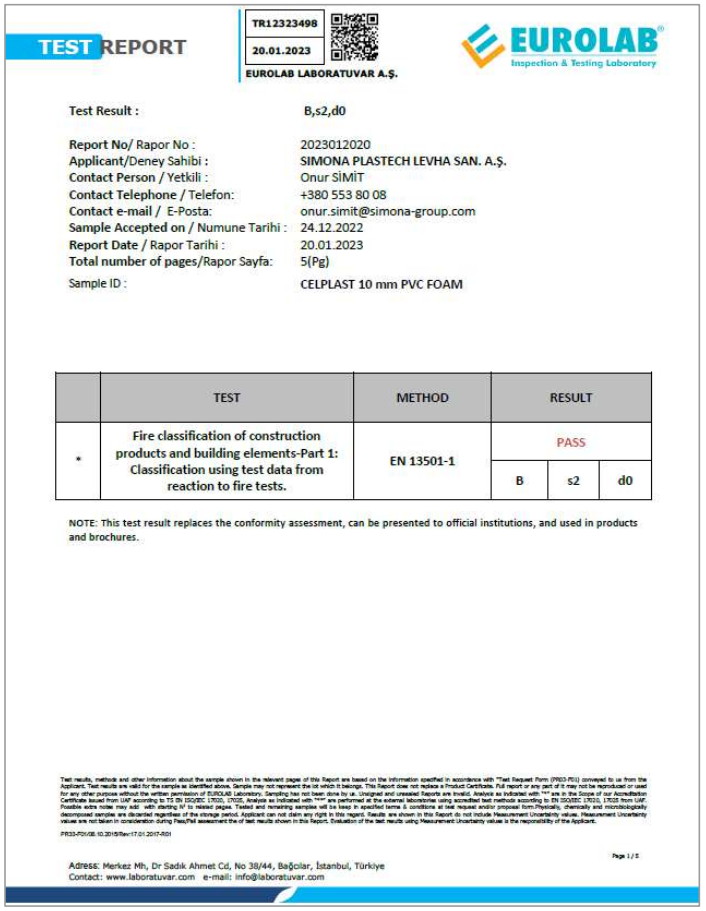
Other dimensions and thicknesses on request

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 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 LABORATUVAR A.Ş.

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 SİMİT
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.

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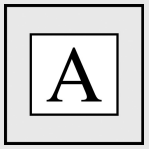
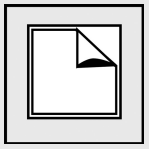
Contact: www.laboratuvar.com e-mail: info@laboratuvar.com

Processing options for SIMONA PVC foam sheets

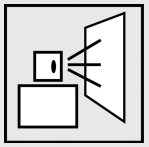
SUPERIOR PROCESSABILITY



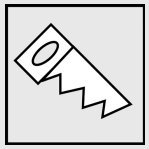
Printing



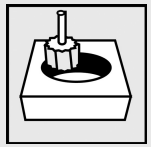
Backing, laminating



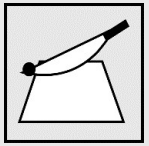
Spray-painting



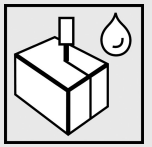
Sawing



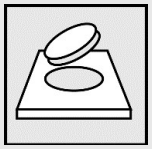
Milling



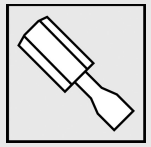
Cutting



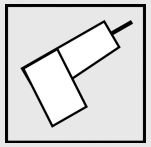
Water-jet cutting



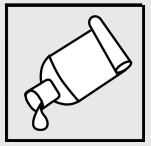
Die-cutting



Bolting

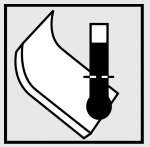


Drilling



Glueing

Cold forming



Warm bending

Production process

Production process

From raw material to end-product

Production