

SIMONA



SIMONA[®] PVC-C CORZAN

Engineered from post-chlorinated PVC for
exceptional performance

SIMONA® PVC-C CORZAN – Unrivalled durability



The SIMONA® PVC-C CORZAN portfolio includes semi-finished products engineered from post-chlorinated PVC – destined mainly for applications in the chemical industry and clean-room environments. Compared to PVC-U, this material boasts increased dimensional stability up to 95 °C and is particularly resistant to chlorine. Furthermore, PVC-C is self-extinguishing, produces non-burning droplets and emits hardly any smoke or flames in the event of fire.

*F.l.t.r.: SIMONA® PVC-C CORZAN ...
... FM 4910 G2 white 141
... Industrial Grade light grey 215
... Industrial Grade swiss grey*

The SIMONA range includes extruded and pressed sheets, as well as welding rods and solid rods.

 **Low flammability**

 **Excellent chemical resistance**

 **High impact strength**



SIMONA® PVC-C CORZAN Industrial Grade – For critical applications in the chemical industry



Properties

- Temperature range from –40 °C to +95 °C
- Chemical resistance to a wide range of highly corrosive liquids and gases as well as galvanic substances
- Good thermal insulation properties
- Good electric insulation properties
- High impact strength

Owing to their increased chlorine content, semi-finished products made of SIMONA® PVC-C CORZAN Industrial Grade offer exceptional chemical resistance. What is more, sheets engineered from this material have an extremely smooth surface finish, thus significantly reducing the adverse effects of chemical attack. Therefore, they are particularly suited to applications within the chemical, electroplating and paper industry, as well as in the area of chlorine electrolysis.

Another key benefit of semi-finished products made of SIMONA® PVC-C CORZAN Industrial Grade is the extended temperature range of –40 °C to +95 °C.

SIMONA® PVC-C CORZAN Industrial Grade is suitable for laminating with GRP and has good welding (hot gas and butt welding) and adhesive properties.

Combining exceptional material properties with excellent value, SIMONA® PVC-C CORZAN Industrial Grade offers a high degree of operational reliability, particularly when it comes to critical applications.

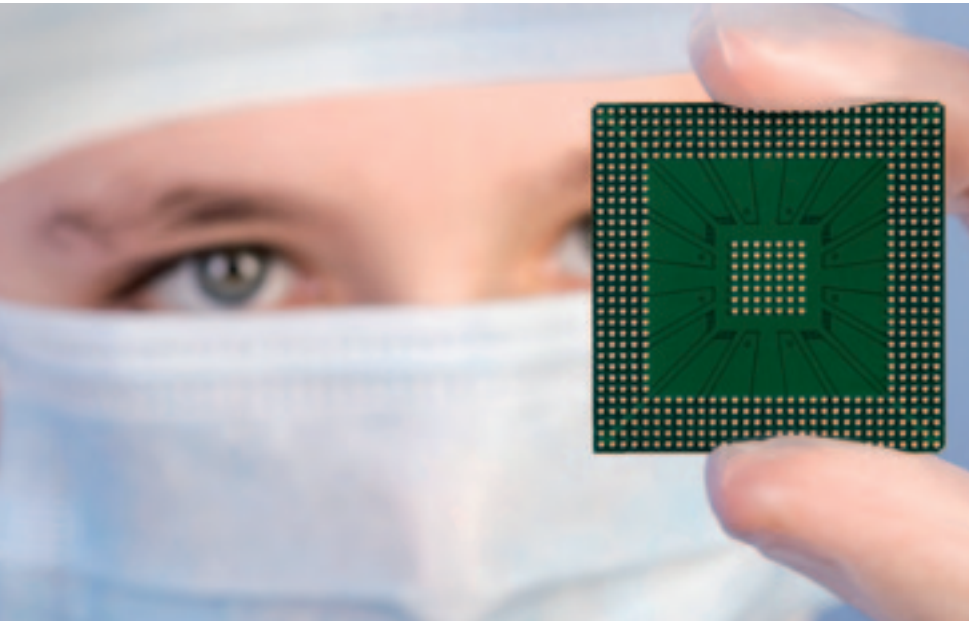
Versatile use

- Chemical process industry
- Chemical tank and equipment engineering
- Electroplating industry
- Paper manufacturing
- Chlorine electrolysis
- Mechanical engineering



Cylindrical tank made of SIMONA® PVC-C CORZAN Industrial Grade

SIMONA® PVC-C CORZAN FM 4910 G2 – Exceptional safety for clean-room applications



Properties

- High dimensional stability under heat
- Exceptional impact strength
- Excellent chemical resistance
- Very good processing properties
- Temperature range from -40°C to $+85^{\circ}\text{C}$
- FM 4910 certified
- Outstanding value

SIMONA® PVC-C CORZAN FM 4910 G2 sheets and welding rods are listed by Factory Mutual (FM 4910) as semi-finished plastics offering advanced protection in the event of fire. As a result, they are particularly well suited to applications in the field of clean-room manufacturing, semiconductor production and pharmaceutical engineering.

One of the key benefits of this material is its resistance to the majority of chemical media as well as corrosive gases and flue gases.

Combining favourable processing qualities with exceptional safety and excellent value, SIMONA® PVC-C CORZAN FM 4910 G2 is the perfect choice for a wide range of applications.

In addition to SIMONA® PVC-C CORZAN FM 4910 G2 sheets and welding rods, we offer an extensive range of FM-listed semi-finished products made of SIMONA® PVDF.

Versatile use

- Clean-room technology
- Semi-conductor industry
- Pharmaceuticals



Wetbench made of SIMONA® PVC-C CORZAN FM 4910 G2

SIMONA® PVC-C CORZAN – Processing and Product Range

Processing techniques



Sawing



Drilling



Backing,
laminating



Milling



Welding



Water-jet cutting



Turning



Deep-drawing



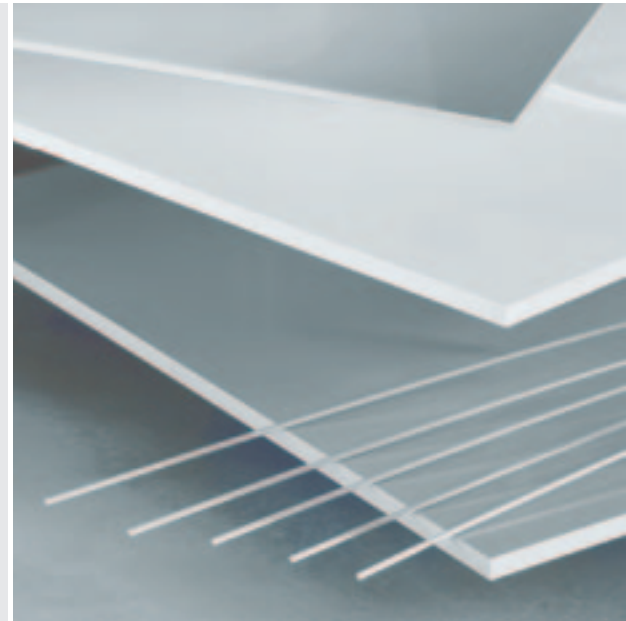
Hot forming



Bolting



Glueing



Product range

SIMONA® PVC-C CORZAN Industrial Grade

SIMONA® PVC-C CORZAN FM 4910 G2

Extruded sheets (size/thickness)

	2440 x 1220 mm	3 – 12 mm	1/8 – 1"
	3048 x 1524 mm		1/8 – 1"
	Colours	light grey 215	white 141

Pressed sheets (size/thickness)

	2000 x 1000 mm	15 – 60 mm	
	Colours	swiss grey (RAL 7037)	

Welding rods

	Types	Round, Triangular (TA 90)	Round
	Thicknesses	3 – 4 mm/4 – 6 mm	3 – 4 mm
	Colours	light grey 215	white 141

Solid rods (length/diameter)

	1000 mm	100 – 300 mm	
	2000 mm	8 – 250 mm	
	Colours	light grey 215	

Sheets in other formats and intermediate thicknesses can be supplied on request.

Solid rods in customised lengths available on request.

Welding rods in other dimensions and thicknesses on request.

SIMONA® PVC-C CORZAN – Material specifications

Material specifications

	SIMONA® PVC-C CORZAN Industrial Grade extruded	SIMONA® PVC-C CORZAN Industrial Grade pressed	SIMONA® PVC-C CORZAN FM 4910 G2
Density, g/cm ³	1.520	1.500	1.550
Yield stress, MPa	60	56	53
Elongation at yield, %	5	4	4
Elongation at break, %	45	30	30
Tensile modulus of elasticity, MPa	2500	2500	2500
Impact strength, kJ/m ²	no break	no break	no break
Notched impact strength, kJ/m ²	8	8	12
Shore hardness, D	80	80	82
Mean coefficient of linear thermal expansion, K ⁻¹	0.7 x 10 ⁻⁴	0.7 x 10 ⁻⁴	0.7 x 10 ⁻⁴
Spec. surface resist., Ohm	10 ¹⁵	10 ¹⁵	10 ¹⁵
Fire behaviour	low flammability DIN 4102 B1 [Ⓞ]	low flammability DIN 4102 B1 [Ⓞ]	low flammability FM 4910/DIN 4102 B1 [Ⓞ]
Temperature range, °C	-40 to +95	-40 to +95	-40 to +85

Ⓞ Self-assessment without test certificate

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