

# Technical data sheet

## Rigid PVC (Trovidur® EC)



Trovidur® EC is the name of extruded rigid PVC boards with a normal impact resistance (PVC-U). The boards are made of unplasticized moulding compounds in accordance with DIN EN ISO 1163-1.

### Characteristic properties:

- normal impact resistance
- high resistance to acids, alkaline solutions and saline solutions
- typical surface for technical applications
- suitable for deep drawing
- suitable for welding and bonding
- very good electrical insulation properties
- self-extinguishing after removal of the flame
- easy processing

Material properties	Test method	Unit	Value
<b>Mechanical properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	approx. 1.44
Yield stress	DIN EN ISO 527	N/mm <sup>2</sup>	50
Elongation at break	DIN EN ISO 527	%	20
Modulus of elasticity	ISO 527-2	N/mm <sup>2</sup>	2700
Compressive strength	ISO 3605	N/mm <sup>2</sup>	65
Notched impact strength at 23 °C	DIN EN ISO 179	kJ/m <sup>2</sup>	4
Ball hardness	ISO 2039	N/mm <sup>2</sup>	110
3.5 % flexural strain	ISO 178	N/mm <sup>2</sup>	approx. 70
Hardness Shore D	DIN EN ISO 868		approx. 80
<b>Thermal properties</b>			
Vicat softening temperature	DIN EN ISO 306	°C	73
Heat deflection temperature, method A	DIN EN ISO 75	°C	approx. 65
Heat deflection temperature, method B	DIN EN ISO 75	°C	approx. 70
Coefficient of linear expansion	DIN 53752	K <sup>-1</sup>	approx. 70 x 10 <sup>-6</sup>
Thermal conductivity at 20 °C	DIN 52612	W / (m · K)	0.16
<b>Electrical properties</b>			
Specific insulation resistance	DIN IEC 60093	Ω x cm	> 10 <sup>15</sup>
Surface resistance	DIN IEC 60093	Ω	> 10 <sup>13</sup>
Glow wire flammability index	IEC / DIN EN 60695-2-12	°C	960
Glow wire ignition temperature	IEC / DIN EN 60695-2-13	°C	> 960
Dielectric strength (test specimen thickness 3 mm)	DIN 53481/ VDE 00303-2	kV/mm	≥ 12
<b>Other properties</b>			
Water absorption	ISO 62	%	0.2
Service temperature range	-	°C	- 20 to max. 60
Weathering stability	-	-	good
Fire performance 1 mm – 4 mm	DIN 4102 (D)	-	B1
1.5 mm – 6 mm	EN 13501-1 (EU)	-	B-s3,d0

The physical values listed in the table are reference values that were obtained with test specimens under defined conditions and are **average values** from a large number of measurements. Values measured on test specimens do not allow any conclusions to be drawn with respect to the behaviour of finished parts since this also depends on the way these are processed and their shape.

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Dimensions:

Thickness mm	Tolerance mm	Colour	Format
1	± 0.11	iron grey (RAL 7011)	2,000 x 1,000 mm
2	± 0.14	iron grey (RAL 7011)	2,000 x 1,000 mm
3	± 0.17	iron grey (RAL 7011)	2,000 x 1,000 mm
4	± 0.20	iron grey (RAL 7011)	2,000 x 1,000 mm
5	± 0.23	iron grey (RAL 7011)	2,000 x 1,000 mm
6	± 0.26	iron grey (RAL 7011)	2,000 x 1,000 mm
8	± 0.32	iron grey (RAL 7011)	2,000 x 1,000 mm
10	± 0.38	iron grey (RAL 7011)	2,000 x 1,000 mm
12	± 0.44	iron grey (RAL 7011)	2,000 x 1,000 mm
15	± 0.53	iron grey (RAL 7011)	2,000 x 1,000 mm
20	± 0.68	iron grey (RAL 7011)	2,000 x 1,000 mm
25	± 0.83	iron grey (RAL 7011)	2,000 x 1,000 mm
30	± 0.98	iron grey (RAL 7011)	2,000 x 1,000 mm
40	± 1.30	iron grey (RAL 7011)	2,000 x 1,000 mm

Other formats, thicknesses and colours on request

**Very good resistance to:** acids, alkalis, alcohol, oil, gasoline

**Attacked by:** acetone, ether, benzene, chloroform, concentrated hydrochloric acid

**Special information:**

We provide this information to the best of our knowledge based on results obtained in practice and trials that were carried out in our company. This information is not binding and does not warrant any characteristics within the meaning of BGH court rulings (BGH – German Federal Court of Justice). This information reflects the knowledge available on the date of publication and is subject to change.

Since our products are suitable for a wide range of applications, we recommend that you use original materials to thoroughly test the product in question to make sure that it fits the purpose before releasing it for further processing. Our application technology department will gladly offer advice and support on all aspects.

All of our products are subjected to strict quality control procedures.

This technical data sheet replaces all previous versions and is valid until a new version is published or 31.12.2021 at the latest. Please ask for the new valid version as of 01.01.2022.

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