

Trade name: **SIMONA® CELPLAST® 2542**  
 Date of printing: 08.10.2025

Revision: 18.09.2025

**SIMONA® CELPLAST® 2542**

Data sheet update	18.09.2025
Density, g/cm <sup>3</sup> , DIN EN ISO 1183	0.50
Tensile modulus of elasticity, MPa	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 <sup>2</sup> , 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 (edge), N , based on DIN EN 320	4500
Resistance to withdrawal of screws (surface), N , based on DIN EN 320	1500 - 2400
Mean coefficient of linear thermal expansion, K <sup>-1</sup> , ISO 11359-2	0,070 mm/m/K
Surface resistivity, Ohm , DIN EN 61340	≥ 10 <sup>13</sup>
Temperature range, °C	0 to +60
Fire behaviour DIN EN 13501-1	Fire behavior, DIN EN ISO 13501 10 to 19 mm, test certificate according to standard
Fire behaviour NF P 92-501	

All specifications are deemed to be approximate values in respect of the specific material and may vary depending on the processing methods used. In general, data specified applies to average values measured on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations from the values specified are possible if the sheets in this thickness are not available. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Information presented herein is not necessarily applicable to other products (e.g. pipes, solid rods) of the same material or products that have undergone downstream processing. Suitability of materials for a specific field of application must be assessed by the party responsible for processing or the end-user. All technical specifications presented herein are designed merely to provide assistance in terms of project planning. They do not constitute a guarantee of specific properties or qualities. All technical specifications and temperature ranges were determined in short-term tests and therefore cannot

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be used for design work for permanent, long-term use that requires long-term properties. For further information, please contact our Technical Service Centre at [tsc@simona.de](mailto:tsc@simona.de).