

Trade name: **SIMOLUX**  
 Date of printing: 27.07.2018

Revision: 25.07.2017

**SIMOLUX**

Data sheet update	25.07.2017
Density, g/cm <sup>3</sup> , DIN EN ISO 1183	1.270
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1900
Light transmission, %	90 (3 mm)
Yield stress, MPa, DIN EN ISO 527	52
Elongation at yield, % , DIN EN ISO 527	4,5
Impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179-1eU	without break
Notched impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179	10
Dielectric strength, kV/mm , DIN IEC 60243-1	16
Ball indentation hardness, MPa, DIN EN ISO 2039-1	97
Shore hardness D (15 s), DIN EN ISO 868	78
Vicat B, °C , DIN EN ISO 306	77
Surface resistivity, Ohm , DIN IEC 60093	10 <sup>14</sup>
Temperature range, °C	-40 to +65
Processing temperature, °C	200 - 215 *
Temperature heat bed, °C	80 - 100 *
Fire behaviour DIN 4102	DIN 4102 B1 low flammability 1 to 8 mm, general test certificate issued by an approved building inspectorate (Germany)
Food compliance EU 10/2011	yes
Food compliance FDA	yes
Physiological safety in accordance with BfR (German Federal Institute for risk valuation)	yes
Note	* for processing of 3-D printing filaments

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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. For further information, please contact our Technical Service Centre at [tsc@simona.de](mailto:tsc@simona.de).