

Trade name: **SIMONA® PE 500**
 Date of printing: 06.01.2021

Revision: 11.12.2018

SIMONA® PE 500	
Data sheet update	11.12.2018
Moulding compound extruded	PE,EN,50 G 022
Extruded to moulding compound standard	DIN EN ISO 17855-1
Moulding compound pressed	PE,QN,50 G 022
Pressed to moulding compound standard	DIN EN ISO 17855-1
Density, g/cm ³ , DIN EN ISO 1183	0.950
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1100
Yield stress, MPa, DIN EN ISO 527	28
Elongation at yield, % , DIN EN ISO 527	8
Impact strength, kJ/m ² , DIN EN ISO 179	without break
Dielectric strength, kV/mm , DIN IEC 60243-1	44
Shore hardness D (15 s), DIN EN ISO 868	65
Mean coefficient of linear thermal expansion, K ⁻¹ , ISO 11359-2	1,8 x 10 ⁻⁴
Thermal conductivity, W/m * K , DIN EN 12667	0.38
Vicat B, °C , DIN EN ISO 306	80
Surface resistivity, Ohm , DIN IEC 60093	≥ 10 ¹³
Temperature range, °C	-100 to +80
Fire behaviour DIN 4102	DIN 4102 B2 normal flammability (self-assessment without test certificate)
Comments	EU food compliance for colours natural, black, green, dark blue, light blue, red, yellow, red-brown, grey FDA food compliance for colours natural and green;
Food compliance EU 10/2011	yes
Food compliance FDA	yes

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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.