

Trade name: **SIMONA® PE-500**

Revision: 25.03.2015

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SIMONA® PE-500

Data sheet update	25.03.2015
Moulding compound pressed	PE,QN,50 G 022
Pressed to moulding compound standard	DIN EN ISO 1872, Teil 1
Density, g/cm ³ , DIN EN ISO 1183	0.957
Yield stress, MPa, DIN EN ISO 527	28
Elongation at yield, % , DIN EN ISO 527	8
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1100
Impact strength, KJ/m ² , DIN EN ISO 179	without break
Shore hardness D (15 s), DIN EN ISO 868	66
Mean coefficient of linear thermal expansion, K ⁻¹ , ISO 11359-2	1,8 × 10 ⁻⁴
Vicat B, °C , DIN EN ISO 306	80
Fire behaviour DIN 4102	DIN 4102 B2 normal flammability (self-assessment without test certificate)
Dielectric strength, kV/mm , DIN IEC 60243-1	44
Surface resistivity, Ohm , DIN IEC 60093	>10 ¹⁴
Temperature range, °C	-100 to +80
Physiological safety in accordance with BfR (German Federal Institute for risk valuation)	yes
Physiological safety in accordance with EU	yes
Physiological safety in accordance with FDA	yes

The data presented in this section are to be seen as a guide and may vary depending on the processing method and test specimen used. In general, the figures are averages of tests performed 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 may be possible if sheets are not available in these specific thicknesses. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Please note that this information is not necessarily applicable to products that have undergone downstream processing. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purposes. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at tsc@simona.de.