

Trade name: **PE 1000**  
 Date of printing: 03.02.2016

Revision: 19.09.2014

**PE 1000**

Data sheet update	19.09.2014
Moulding compound pressed	PE,QN,33 G 000
Pressed to moulding compound standard	DIN EN ISO 1872, Teil 1
Density, g/cm <sup>3</sup> , DIN EN ISO 1183	0.93
Tensile modulus of elasticity, MPa, DIN EN ISO 527	700
Water absorption, % , DIN EN ISO 62	< 0,01
Yield stress, MPa, DIN EN ISO 527	19
Elongation at yield, % , DIN EN ISO 527	11
Impact strength, KJ/m <sup>2</sup> , DIN EN ISO 179	without break
Sand Slurry, %	100
Ball indentation hardness, MPa, DIN EN ISO 2039-1	30
Shore hardness D (15 s), DIN EN ISO 868	60
Mean coefficient of linear thermal expansion, K <sup>-1</sup> , ISO 11359-2	1,8 × 10 <sup>-4</sup>
Vicat B, °C , DIN EN ISO 306	82
Molar mass	>= 4.000.000
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 <sup>14</sup>
Temperature range, °C	-260 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

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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](mailto:tsc@simona.de).