

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

Revision: 05.05.2015

PE 1000 superlining	
Data sheet update	05.05.2015
Density, g/cm ³ , DIN EN ISO 1183	0.93
Tensile modulus of elasticity, MPa, DIN EN ISO 527	680
Yield stress, MPa, DIN EN ISO 527	19
Elongation at yield, % , DIN EN ISO 527	10
Elongation at break, % , DIN EN ISO 527	> 350
Impact strength, KJ/m ² , DIN EN ISO 179	without break
Sand Slurry, %	80
Shore hardness D (15 s), DIN EN ISO 868	62
Mean coefficient of linear thermal expansion, K ⁻¹ , ISO 11359-2	2 × 10 ⁻⁴
Coefficient of dynamic sliding friction	0,1 - 0,2
Molar mass	>= 9.000.000
Dielectric strength, kV/mm , DIN IEC 60243-1	44
Surface resistivity, Ohm , DIN IEC 60093	>10 ¹⁴
Temperature range, °C	-200 to +80
Physiological safety in accordance with BfR (German Federal Institute for risk valuation)	yes
Thermal conductivity, W/m * K	0.4

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.