

Trade name: **SIMONA® HDPE natural**

Revision: 01.10.2014

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Data sheet update	01.10.2014
Density, g/cc , D-792	0.963
Tensile Strength at yield, psi , D-638	4,500
Tensile Modulus, psi , D-638	230,000
Izod Impact (notched), ft.lbs./in. , D-256	2.4
Shore Hardness, (1 s), ISO 868	71
Coefficient of Thermal Expansion, in./in./°C , D-696	1.8 x 10 ⁻⁴
Heat Deflection Temperature at 66 psi, °F	175
Heat Deflection Temperature at 264 psi, °F	118
Crystalline melting range, °F , DSC (10 °C/min)	258.8° F - 266° F
Temperature Range, °F	-58 to +176
FDA regulations 21 Chapter 1, part 177.2510 for contact with food stuffs	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 mail@simona-america.com.