

Trade name: **SIMONA® HDPE**

Revision: 03.09.2018

Date of printing: 28.02.2019

**SIMONA® HDPE**

Data sheet update	03.09.2018
Specific Gravity, g/cc , D792	0.96
Water Absorption, % , D570	<0.01
Tensile Strength at yield, psi , D638	4,400
Elongation at break, % , D638	>300
Flexural Modulus, psi , D790	190,000
Izod Impact (notched), ft.lbs./in. , D256	2.75
Shore Hardness D, D2240	65
Coefficient of Friction, (static/dynamic) , C1894	0.2/0.2
Continuous Service Temperature (Maximum), °F	170
Melting Point, °F , D3418	267
Coefficient of Thermal Expansion, in./in./°F , D696	10 x 10 <sup>-5</sup>
Heat Deflection Temperature at 66 psi, °F , D648	167
Heat Deflection Temperature at 264 psi, °F , D648	110
Regulatory Code	FDA
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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 [mail@simona-america.com](mailto:mail@simona-america.com).