

Trade name: **SIMONA® PP-C**
 Date of printing: 19.01.2021

Revision: 28.08.2018

SIMONA® PP-C

Data sheet update	28.08.2018
Moulding compound extruded	PP-B,EN,16-35-003
Extruded to moulding compound standard	DIN EN ISO 19069-1
Moulding compound pressed	PP-B,QN,16-35-003
Pressed to moulding compound standard	DIN EN ISO 19069-1
Density, g/cm ³ , DIN EN ISO 1183	0.910
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1200
Yield stress, MPa, DIN EN ISO 527	26
Elongation at yield, % , DIN EN ISO 527	7
Impact strength, kJ/m ² , DIN EN ISO 179	without break
Notched impact strength Charpy, kJ/m ² , DIN EN ISO 179-1eA	45
Dielectric strength, kV/mm , DIN IEC 60243-1	52
Ball indentation hardness, MPa, DIN EN ISO 2039-1	50
Shore hardness D (15 s), DIN EN ISO 868	67
Mean coefficient of linear thermal expansion, K ⁻¹ , ISO 11359-2	1,6 x 10 ⁻⁴
Surface resistivity, Ohm , DIN IEC 60093	≥ 10 ¹³
Temperature range, °C	-20 to +80
Fire behaviour DIN 4102	DIN 4102 B2 normal flammability (self-assessment without test certificate)
Comments	FDA food compliance for colours natural, grey and white
Food compliance FDA	yes
Physiological safety in accordance with BfR (German Federal Institute for risk valuation)	yes

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All specifications are deemed to be approximate values in respect of the specific material and may vary depending on the processing methods used. In general, data specified applies to average values measured 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 from the values specified are possible if the sheets in this thickness are not available. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Information presented herein is not necessarily applicable to other products (e.g. pipes, solid rods) of the same material or products that have undergone downstream processing. Suitability of materials for a specific field of application must be assessed by the party responsible for processing or the end-user. All technical specifications presented herein are designed merely to provide assistance in terms of project planning. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at tsc@simona.de.