

Trade name: **SIMONA® PVC-CAW**  
 Date of printing: 16.09.2021

Revision: 29.11.2019

**SIMONA® PVC-CAW**

Data sheet update	29.11.2019
Moulding compound extruded	PVC-U,EDP,074-05-T33
Extruded to moulding compound standard	DIN EN ISO 21306, Teil 1
Density, g/cm <sup>3</sup> , DIN EN ISO 1183	1.440
Tensile modulus of elasticity, MPa, DIN EN ISO 527	3300
Yield stress, MPa, DIN EN ISO 527	58
Elongation at yield, % , DIN EN ISO 527	4
Impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179	-
Notched impact strength Charpy, kJ/m <sup>2</sup> , DIN EN ISO 179-1eA	4
Dielectric strength, kV/mm , DIN IEC 60243-1	39
Shore hardness D (15 s), DIN EN ISO 868	82
Mean coefficient of linear thermal expansion, K <sup>-1</sup> , ISO 11359-2	0,8 x 10 <sup>-4</sup>
Vicat B, °C , DIN EN ISO 306	74
Surface resistivity, Ohm , DIN IEC 60093	≥ 10 <sup>13</sup>
Temperature range, °C	0 to +60
Fire behaviour DIN 4102	DIN 4102 B1 low flammability 1 to 4 mm
Fire behaviour UL 94	UL 94 V-0 up from 1 mm
Fire behaviour NF P 92-501	NF P 92-501 M1 from 1 to 3 mm
Fire behaviour BS 476	BS 476 class 1 for 3 mm
Note	Contrary to the figures listed above, the following specifications shall apply to round rods made of PVC-U: Density in accordance with DIN EN ISO 1183: ≥ 1.37 g/cm <sup>3</sup> . Notched impact strength in accordance with DIN EN ISO 179: ≥ 2 kJ/m <sup>2</sup>

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Physiological safety in accordance with BfR (German Federal Institute for risk valuation)	no
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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](mailto:tsc@simona.de).