



PARTS ON DEMAND
3D PRINTING & ADDITIVE MANUFACTURING

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Technical Datasheet

Carbon 11 (PA11CF)

General properties

	Method/Conditions	Value
Part density	ISO 61	1,07 ± 0,05g/cm ³
Color		Grey
Part water absorption (At 23°C, 50% RH at equilibrium)	ISO 62/1	n/a

Thermal properties

	Method/Conditions	Value
Melting point T°m	ISO 11357-3	201 ± 2°C
Glass transition temperature T°g	ISO 11357-3	n/a
Heat deflection temperature at 0,45 MPa	ISO 75f	n/a
Heat deflection temperature at 1,82 MPa	ISO 75f	132 ± 2°C

Mechanical properties

	Method/Conditions	Value
Tensile strength (X/Y)	ISO 527-2:93-1B	73/56 ± 1 MPa
Tensile modulus (X/Y)	ISO 527-2:93-1B	6144/3345 ± 100 MPa
Elongation at break (X/Y)	ISO 527-2:93-1B	5.5/11.5 ± 2 %
Flexural modulus	ISO 178 [23°C]	n/a
Charpy – Impact strength (Unnotched) (X/Y)	ISO 179 1eU [23°C]	54/52 ± 2 kJ/m
Hardness (Shore D – instantaneous)	ISO 868 [20°C]	78 ± 1

Electrical properties

	Method/Conditions	Value
Surface resistivity (X/Y)	n/a	4 x 10 ³ Ohm

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