



CARBON 11

Material Data Sheet



PARTS ON DEMAND
3D PRINTING & ADDITIVE MANUFACTURING

CARBON 11

For demanding applications



Characteristics

- PA11 reinforced with carbon fibre
- Exceptional stiffness
- High tensile and impact strength
- Heat deflection of 130 °C under load
- Antracite material color
- ESD Safe

Applications

- Metal replacement applications
- Automotive applications
- Machinebuilding components
- Durable production tooling

Mechanical properties	Test method	Value	Unit
Tensile strength	ISO 527-2:93-1B	X: 73 ± 1 Y: 56 ± 1	MPa
Tensile modulus	ISO 527-2:93-1B	X: 6144 ± 100 Y: 3345 ± 100	MPa
Elongation at break	ISO 527-2:93-1B	X: 5.5 ± 2 Y: 11.5 ± 2	%
Charpy impact strength	ISO 179 1eU (23 °C)	X: 54 ± 2 Y: 52 ± 2	kJ/m
Hardness (Shore D - instant)	ISO 868 (20 °C)	78 ± 1	

Electrical properties	Test method	Value	Unit
Surface resistivity	n/a	approx. 4 x 10 ³	Ohm



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Thermal properties	Test method	Value	Unit
Melting point	ISO 11357-3	201 ± 2	°C
Glass transition temperature	ISO 11357-3	n/a	
Heat deflection temperature	ISO 75f	@ 0.45 MPa: n/a @ 1.82 MPa: 132 ± 2	°C

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