



LATIOHM B61-01 AM CNT

Semiconductive/dissipative product based on Bio-polymer resin. 3D printing version. Carbon nanotubes. PFAS-free product.

The products mentioned herein are not suitable for applications in contact with foodstuffs or for potable water transportation, or for toy manufacturing.

The products mentioned herein are not suitable for applications in the pharmaceutical, medical or dental sector.

PHYSICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Density		
injection moulding	ISO 1183	1.34 g/cm ³
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
CHARPY impact strength		
Unnotched, at 23°C, injection moulding	ISO 179-1eU	45.0 kJ/m ²
Notched, at 23°C, injection moulding	ISO 179-1eA	5.0 kJ/m ²
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Tensile elongation		
At break (5 mm/min), 23°C, injection moulding	ISO 527	2.5 %
Tensile strength		
At break (5 mm/min), 23°C, injection moulding	ISO 527	20 MPa
Elastic modulus		
Tensile (1 mm/min), 23°C, injection moulding	ISO 527	800 MPa
THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Coefficient of linear thermal expansion (CLTE)		
30°C to 100°C (longitudinal)	ISO 11359	75 × 10 ⁻⁶ K ⁻¹
VICAT - Softening point		
50 N (heating rate 120°C/h), injection moulding	ISO 306	55 °C
HDT - Heat Deflection Temperature		
0.45 MPa, injection moulding	ISO 75	50 °C
1.81 MPa, injection moulding	ISO 75	40 °C
ELECTRICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Electrical resistivity		
surface, dry	ASTM D 257 / ASTM D4496	5E0 ohm



FILAMENT EXTRUSION PARAMETERS

Material drying (at least 4h @ ...)

60 °C

Suggested temperature range of filament production

190 - 200 °C

3D PRINTING SUGGESTED CONDITIONS

VALUE MEASURE UNITS

Filament drying conditions

60 °C

Extruder temperature

210 - 230 °C

Chamber conditioning

ON

Nozzle type

Brass

MOULDED SPECIMEN CONDITIONS

VALUE MEASURE UNITS

APPROVALS

Please, check our site or contact LATI for details.

CONTACTS

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