



# 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
<b>Density</b>		
injection molding	ISO 1183	1.34 g/cm <sup>3</sup>
<b>MECHANICAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>CHARPY impact strength</b>		
Unnotched, at 23°F, injection molding	ISO 179-1eU	20.0 ft.lb/in <sup>2</sup>
Notched, at 23°F, injection molding	ISO 179-1eA	2.3 ft.lb/in <sup>2</sup>
<b>MECHANICAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>Tensile elongation</b>		
At break (0.196 in/min), 23°F, injection molding	ISO 527	2.5 %
<b>Tensile strength</b>		
At break (0.196 in/min), 23°F, injection molding	ISO 527	2900 psi
<b>Elastic modulus</b>		
Tensile (0.04 in/min), 23°F, injection molding	ISO 527	116 kpsi
<b>THERMAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>Coefficient of linear thermal expansion (CLTE)</b>		
30°F to 100°F (longitudinal)	ISO 11359	75 × 10 <sup>-6</sup> K <sup>-1</sup>
<b>VICAT - Softening point</b>		
11 lb (heating rate 250°F/h), injection molding	ISO 306	131 °F
<b>HDT - Heat Deflection Temperature</b>		
66 psi, injection molding	ISO 75	122 °F
264 psi, injection molding	ISO 75	104 °F
<b>ELECTRICAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>Electrical resistivity</b>		
surface, dry	ASTM D 257 / ASTM D4496	5E0 ohm



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#### FILAMENT EXTRUSION PARAMETERS

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

#### VALUE MEASURE UNITS

140 °F

Suggested temperature range of filament production

375 - 390 °F

#### 3D PRINTING SUGGESTED CONDITIONS

#### VALUE MEASURE UNITS

Filament drying conditions

140 °F

Extruder temperature

410 - 445 °F

Chamber conditioning

ON

Nozzle type

Brass

#### MOLDED SPECIMEN CONDITIONS

#### VALUE MEASURE UNITS

#### APPROVALS

Please, check our site or contact LATI for details.

#### CONTACTS

LATI Industria Termoplastici S.p.A.