



# LATIGRAY B01-01 AM CX/35 F1

Radiopaque compound based on Bio-polymer resin. 3D printing version. Special filler. PFAS-free product.

Versions of product mentioned herein are suitable for applications in contact with foodstuffs or for toy manufacturing. Nevertheless, manufactured parts have to be verified according to the specific directives.

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 moulding	ISO 1183	1.66 g/cm <sup>3</sup>
<b>Linear shrinkage at moulding</b>		
Longitudinal (2.0mm/60MPa)	ISO 294-4	0.15 ÷ 0.40 %
Transversal (2.0mm/60MPa)	ISO 294-4	0.15 ÷ 0.40 %
<b>Dimensional stability</b>	---	66
<b>Moisture absorption</b>		
saturation, in air	ISO 62-4	0.60 %
<b>MECHANICAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>CHARPY impact strength</b>		
Unnotched, at 23°C, injection moulding	ISO 179-1eU	12.0 kJ/m <sup>2</sup>
Notched, at 23°C, injection moulding	ISO 179-1eA	2.0 kJ/m <sup>2</sup>
<b>MECHANICAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>Tensile elongation</b>		
At break (5 mm/min), 23°C, injection moulding	ISO 527	3.5 %
<b>Tensile strength</b>		
At break (5 mm/min), 23°C, injection moulding	ISO 527	35 MPa
<b>Elastic modulus</b>		
Tensile (1 mm/min), 23°C, injection moulding	ISO 527	6800 MPa
<b>THERMAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>Coefficient of linear thermal expansion (CLTE)</b>		
30°C to 100°C (longitudinal)	ISO 11359	70 × 10 <sup>-6</sup> K <sup>-1</sup>
30°C to 100°C (transversal)	ISO 11359	70 × 10 <sup>-6</sup> K <sup>-1</sup>
<b>VICAT - Softening point</b>		
50 N (heating rate 120°C/h), injection moulding	ISO 306	60 °C
<b>HDT - Heat Deflection Temperature</b>		
0.45 MPa, injection moulding	ISO 75	55 °C
1.81 MPa, injection moulding	ISO 75	50 °C
<b>ELECTRICAL PROPERTIES</b>	<b>STANDARD</b>	<b>VALUE MEASURE UNITS</b>
<b>Electrical resistivity</b>		
surface, dry	ASTM D 257 / ASTM D4496	1E12 ohm



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### FILAMENT EXTRUSION PARAMETERS

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

### VALUE MEASURE UNITS

60 °C

Suggested temperature range of filament production

210 - 225 °C

### 3D PRINTING SUGGESTED CONDITIONS

### VALUE MEASURE UNITS

Filament drying conditions

60 °C

Extruder temperature

230 - 250 °C

Chamber conditioning

OFF

Nozzle type

Brass

### MOULDED SPECIMEN CONDITIONS

### VALUE MEASURE UNITS

### APPROVALS

Please, check our site or contact LATI for details.

### CONTACTS

LATI Industria Termoplastici S.p.A.