



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
Density		
injection molding	ISO 1183	1.66 g/cm ³
Linear shrinkage at moulding		
Longitudinal (0.078in/8,700psi)	ISO 294-4	0.15 ÷ 0.40 %
Transversal (0.078in/8,700psi)	ISO 294-4	0.15 ÷ 0.40 %
Dimensional stability	---	66
Moisture absorption		
saturation, in air	ISO 62-4	0.60 %
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
CHARPY impact strength		
Unnotched, at 23°F,injection molding	ISO 179-1eU	5.5 ft.lb/in ²
Notched, at 23°F,injection molding	ISO 179-1eA	0.9 ft.lb/in ²
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Tensile elongation		
At break (0.196 in/min), 23°F, injection molding	ISO 527	3.5 %
Tensile strength		
At break (0.196 in/min), 23°F, injection molding	ISO 527	5250 psi
Elastic modulus		
Tensile (0.04 in/min), 23°F, injection molding	ISO 527	990 kpsi
THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Coefficient of linear thermal expansion (CLTE)		
30°F to 100°F (longitudinal)	ISO 11359	70 × 10 ⁻⁶ K ⁻¹
30°F to 100°F (transversal)	ISO 11359	70 × 10 ⁻⁶ K ⁻¹
VICAT - Softening point		
11 lb (heating rate 250°F/h), injection molding	ISO 306	140 °F
HDT - Heat Deflection Temperature		
66 psi, injection molding	ISO 75	131 °F
264 psi, injection molding	ISO 75	122 °F
ELECTRICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Electrical resistivity		
surface, dry	ASTM D 257 / ASTM D4496	1E12 ohm



FILAMENT EXTRUSION PARAMETERS

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

VALUE MEASURE UNITS

140 °F

Suggested temperature range of filament production

410 - 435 °F

3D PRINTING SUGGESTED CONDITIONS

VALUE MEASURE UNITS

Filament drying conditions

140 °F

Extruder temperature

445 - 480 °F

Chamber conditioning

OFF

Nozzle type

Brass

MOLDED SPECIMEN CONDITIONS

VALUE MEASURE UNITS

APPROVALS

Please, check our site or contact LATI for details.

CONTACTS

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