



LATIGEA B20 AM

Product made of Bio-polymer resin from renewable sources. 3D printing version. 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

Density

injection molding

STANDARD

ISO 1183

VALUE MEASURE UNITS

1.26 g/cm³

Linear shrinkage at moulding

Longitudinal (0.078in/8,700psi)

ISO 294-4

0.20 ÷ 0.60 %

Transversal (0.078in/8,700psi)

ISO 294-4

0.20 ÷ 0.60 %

Dimensional stability

63

Moisture absorption

saturation, in air

ISO 62-4

0.04 %

MECHANICAL PROPERTIES

CHARPY impact strength

Unnotched, at 23°F, injection molding

ISO 179-1eU

20.0 ft.lb/in²

Notched, at 23°F, injection molding

ISO 179-1eA

1.9 ft.lb/in²

MECHANICAL PROPERTIES

Tensile elongation

At break (0.196 in/min), 23°F, injection molding

ISO 527

2.0 %

Tensile strength

At break (0.196 in/min), 23°F, injection molding

ISO 527

7500 psi

Elastic modulus

Tensile (0.04 in/min), 23°F, injection molding

ISO 527

510 kpsi

THERMAL PROPERTIES

Coefficient of linear thermal expansion (CLTE)

30°F to 100°F (longitudinal)

ISO 11359

85 × 10⁻⁶ K⁻¹

30°F to 100°F (transversal)

ISO 11359

90 × 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

221 °F

264 psi, injection molding

ISO 75

140 °F

ELECTRICAL PROPERTIES

Electrical resistivity

surface, dry

ASTM D 257 / ASTM D4496

1E12 ohm



FILAMENT EXTRUSION PARAMETERS

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

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

385 - 410 °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.