



LATIGEA B20 AM Z1

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 moulding

STANDARD

ISO 1183

VALUE MEASURE UNITS

1.26 g/cm³

Linear shrinkage at moulding

Longitudinal (2.0mm/60MPa)

ISO 294-4

0.20 ÷ 0.60 %

Transversal (2.0mm/60MPa)

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°C, injection moulding

ISO 179-1eU

45.0 kJ/m²

Notched, at 23°C, injection moulding

ISO 179-1eA

4.5 kJ/m²

MECHANICAL PROPERTIES

Tensile elongation

At break (5 mm/min), 23°C, injection moulding

ISO 527

3.0 %

Tensile strength

At break (5 mm/min), 23°C, injection moulding

ISO 527

55 MPa

Elastic modulus

Tensile (1 mm/min), 23°C, injection moulding

ISO 527

2900 MPa

THERMAL PROPERTIES

Coefficient of linear thermal expansion (CLTE)

30°C to 100°C (longitudinal)

ISO 11359

85 × 10⁻⁶ K⁻¹

30°C to 100°C (transversal)

ISO 11359

90 × 10⁻⁶ K⁻¹

VICAT - Softening point

50 N (heating rate 120°C/h), injection moulding

ISO 306

65 °C

HDT - Heat Deflection Temperature

0.45 MPa, injection moulding

ISO 75

55 °C

1.81 MPa, injection moulding

ISO 75

55 °C

ELECTRICAL PROPERTIES

Electrical resistivity

surface, dry

ASTM D 257 / ASTM D4496

1E12 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

195 - 210 °C

Chamber conditioning

ON

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.