



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 | STANDARD | VALUE MEASURE UNITS |
|---|-------------------------|---------------------------------------|
| Density | | |
| injection moulding | ISO 1183 | 1.26 g/cm ³ |
| 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 | STANDARD | VALUE MEASURE UNITS |
| CHARPY impact strength | | |
| Unnotched, at 23°C, injection moulding | ISO 179-1eU | 45.0 kJ/m ² |
| Notched, at 23°C, injection moulding | ISO 179-1eA | 4.0 kJ/m ² |
| MECHANICAL PROPERTIES | STANDARD | VALUE MEASURE UNITS |
| Tensile elongation | | |
| At break (5 mm/min), 23°C, injection moulding | ISO 527 | 2.0 % |
| Tensile strength | | |
| At break (5 mm/min), 23°C, injection moulding | ISO 527 | 50 MPa |
| Elastic modulus | | |
| Tensile (1 mm/min), 23°C, injection moulding | ISO 527 | 3500 MPa |
| THERMAL PROPERTIES | STANDARD | VALUE MEASURE UNITS |
| 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 | 60 °C |
| HDT - Heat Deflection Temperature | | |
| 0.45 MPa, injection moulding | ISO 75 | 105 °C |
| 1.81 MPa, injection moulding | ISO 75 | 60 °C |
| 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 @ ...)
Suggested temperature range of filament production

VALUE MEASURE UNITS

60 °C
190 - 200 °C

3D PRINTING SUGGESTED CONDITIONS

Filament drying conditions
Extruder temperature
Chamber conditioning
Nozzle type

VALUE MEASURE UNITS

60 °C
195 - 210 °C
ON
Brass

MOULDED SPECIMEN CONDITIONS

VALUE MEASURE UNITS

APPROVALS

Please, check our site or contact LATI for details.

CONTACTS

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