



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	STANDARD	VALUE MEASURE UNITS
Density		
injection molding	ISO 1183	1.26 g/cm ³
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	STANDARD	VALUE MEASURE UNITS
CHARPY impact strength		
Unnotched, at 23°F,injection molding	ISO 179-1eU	20.0 ft.lb/in ²
Notched, at 23°F,injection molding	ISO 179-1eA	2.1 ft.lb/in ²
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Tensile elongation		
At break (0.196 in/min), 23°F, injection molding	ISO 527	3.0 %
Tensile strength		
At break (0.196 in/min), 23°F, injection molding	ISO 527	8250 psi
Elastic modulus		
Tensile (0.04 in/min), 23°F, injection molding	ISO 527	420 kpsi
THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
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	149 °F
HDT - Heat Deflection Temperature		
66 psi, injection molding	ISO 75	131 °F
264 psi, injection molding	ISO 75	131 °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

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.