

# Latigea B01 F1

Polylactic Acid

LATI S.p.A.

## Message:

Bio-Polymer (PLA, PHB, ...).

Unfilled. Potentially suitable for food/medical contact application.

| General Information                     |                                 |                   |             |
|-----------------------------------------|---------------------------------|-------------------|-------------|
| Features                                | Renewable Resource Content      |                   |             |
| Uses                                    | Medical/Healthcare Applications |                   |             |
|                                         | Non-specific Food Applications  |                   |             |
| Physical                                | Nominal Value                   | Unit              | Test Method |
| Density                                 | 1.26                            | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup>          |                                 |                   | ISO 294-4   |
| Across Flow : 2.00 mm                   | 0.20 to 0.60                    | %                 |             |
| Flow : 2.00 mm                          | 0.20 to 0.60                    | %                 |             |
| Mechanical                              | Nominal Value                   | Unit              | Test Method |
| Tensile Modulus (23°C)                  | 3000                            | MPa               | ISO 527-2/1 |
| Tensile Stress                          |                                 |                   | ISO 527-2/5 |
| Yield, 23°C                             | 65.0                            | MPa               |             |
| Break, 23°C                             | 55.0                            | MPa               |             |
| Tensile Strain                          |                                 |                   | ISO 527-2/5 |
| Yield, 23°C                             | 2.8                             | %                 |             |
| Break, 23°C                             | 4.5                             | %                 |             |
| Impact                                  | Nominal Value                   | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)   | 1.4                             | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 20                              | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                 | Nominal Value                   | Unit              | Test Method |
| Heat Deflection Temperature             |                                 |                   |             |
| 0.45 MPa, Unannealed                    | 55.0                            | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 50.0                            | °C                | ISO 75-2/A  |
| Vicat Softening Temperature             | 60.0                            | °C                | ISO 306/B50 |
| Injection                               | Nominal Value                   | Unit              |             |
| Drying Temperature                      | 40.0 to 50.0                    | °C                |             |
| Drying Time                             | 6.0                             | hr                |             |
| Processing (Melt) Temp                  | 170 to 190                      | °C                |             |
| Mold Temperature                        | 15.0 to 30.0                    | °C                |             |
| Injection Rate                          | Moderate                        |                   |             |
| NOTE                                    |                                 |                   |             |

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