

## LATI Latilub 37 B01-02S Bio-Polymer

Category : Polymer , Thermoplastic , Polylactic Acid (PLA) Biopolymer

### Material Notes:

Self-lubricating product based on Bio-Polymer (PLA, PHB, ...). Silicone. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LATI-Latilub-37-B01-02S-Bio-Polymer.php](http://www.lookpolymers.com/polymer_LATI-Latilub-37-B01-02S-Bio-Polymer.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	
Linear Mold Shrinkage, Flow	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	
Elongation at Break	4.5 %	4.5 %	
Elongation at Yield	2.5 %	2.5 %	
Tensile Modulus	2.90 GPa	421 ksi	
Charpy Impact Unnotched	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.350 J/cm <sup>2</sup>	1.67 ft-lb/in <sup>2</sup>	
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.22	0.22	
K (wear) Factor	65.0 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	32.3 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	50.0 Â°C	122 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	
Vicat Softening Point	60.0 Â°C @Load 5.00 kg	140 Â°F @Load 11.0 lb	

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	170 - 190 Å°C Metric	338 - 374 Å°F English	Comments
Mold Temperature	15.0 - 30.0 Å°C	59.0 - 86.0 Å°F	
Drying Temperature	40.0 - 50.0 Å°C @Time 21600 sec	104 - 122 Å°F @Time 6.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

## Contact Songhan Plastic Technology Co.,Ltd.

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