

# Latilub 66-01M G/50

Polyamide 66

LATI S.p.A.

## Message:

Self-lubricating product based on Polyamide 66 (PA 66).

Molybdenum disulfide. Glass fibres.

| General Information                     |                                  |                             |             |
|-----------------------------------------|----------------------------------|-----------------------------|-------------|
| Filler / Reinforcement                  | Glass Fiber,50% Filler by Weight |                             |             |
| Additive                                | Molybdenum Disulfide Lubricant   |                             |             |
| Features                                | Self Lubricating                 |                             |             |
| Physical                                | Nominal Value                    | Unit                        | Test Method |
| Density                                 | 1.59                             | g/cm <sup>3</sup>           | ISO 1183    |
| Molding Shrinkage <sup>1</sup>          |                                  |                             | ISO 294-4   |
| Across Flow : 2.00 mm                   | 0.65 to 0.95                     | %                           |             |
| Flow : 2.00 mm                          | 0.30 to 0.60                     | %                           |             |
| Mechanical                              | Nominal Value                    | Unit                        | Test Method |
| Tensile Modulus (23°C)                  | 15500                            | MPa                         | ISO 527-2/1 |
| Tensile Stress (Break, 23°C)            | 220                              | MPa                         | ISO 527-2/5 |
| Tensile Strain (Break, 23°C)            | 2.5                              | %                           | ISO 527-2/5 |
| Coefficient of Friction                 |                                  |                             | ASTM D3702  |
| vs. Itself - Dynamic                    | 0.39                             |                             |             |
| vs. Itself - Static                     | 0.46                             |                             |             |
| Wear Factor                             | 2.40E-9                          | (m <sup>3</sup> /h)/(N·m·h) | ASTM D3702  |
| Impact                                  | Nominal Value                    | Unit                        | Test Method |
| Charpy Notched Impact Strength (23°C)   | 10                               | kJ/m <sup>2</sup>           | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 65                               | kJ/m <sup>2</sup>           | ISO 179/1eU |
| Notched Izod Impact (23°C, 3.20 mm)     | 140                              | J/m                         | ASTM D256A  |
| Thermal                                 | Nominal Value                    | Unit                        | Test Method |
| Heat Deflection Temperature             |                                  |                             |             |
| 0.45 MPa, Unannealed                    | 265                              | °C                          | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 260                              | °C                          | ISO 75-2/A  |
| Vicat Softening Temperature             | 260                              | °C                          | ISO 306/B50 |
| Injection                               | Nominal Value                    | Unit                        | Test Method |
| Drying Temperature                      | 90.0 to 100                      | °C                          |             |
| Drying Time                             | 3.0                              | hr                          |             |
| Processing (Melt) Temp                  | 280 to 310                       | °C                          |             |
| Mold Temperature                        | 70.0 to 100                      | °C                          |             |
| Injection Rate                          | Moderate                         |                             |             |
| NOTE                                    |                                  |                             |             |

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