

# Latamid 66 H2 G/35

Polyamide 66

LATI S.p.A.

## Message:

Compound based on Polyamide 66 (PA 66).

Heat stabilised. Glass fibres. Product UL certified.

| General Information                     |                                  |                   |             |
|-----------------------------------------|----------------------------------|-------------------|-------------|
| UL YellowCard                           | E54080-243993                    |                   |             |
| Filler / Reinforcement                  | Glass Fiber,35% Filler by Weight |                   |             |
| Additive                                | Heat Stabilizer                  |                   |             |
| Features                                | Heat Stabilized                  |                   |             |
| Physical                                | Nominal Value                    | Unit              | Test Method |
| Density                                 | 1.41                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup>          |                                  |                   | ISO 294-4   |
| Across Flow : 2.00 mm                   | 0.75 to 1.1                      | %                 |             |
| Flow : 2.00 mm                          | 0.35 to 0.60                     | %                 |             |
| Mechanical                              | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                         |                                  |                   | ISO 527-2/1 |
| 23°C                                    | 10500                            | MPa               |             |
| 60°C                                    | 9500                             | MPa               |             |
| 90°C                                    | 8300                             | MPa               |             |
| 120°C                                   | 6200                             | MPa               |             |
| 150°C                                   | 4900                             | MPa               |             |
| Tensile Stress                          |                                  |                   | ISO 527-2/5 |
| Break, 23°C                             | 185                              | MPa               |             |
| Break, 60°C                             | 145                              | MPa               |             |
| Break, 90°C                             | 115                              | MPa               |             |
| Break, 120°C                            | 105                              | MPa               |             |
| Break, 150°C                            | 90.0                             | MPa               |             |
| Tensile Strain                          |                                  |                   | ISO 527-2/5 |
| Break, 23°C                             | 2.8                              | %                 |             |
| Break, 60°C                             | 3.5                              | %                 |             |
| Break, 90°C                             | 4.7                              | %                 |             |
| Break, 120°C                            | 5.0                              | %                 |             |
| Break, 150°C                            | 6.0                              | %                 |             |
| 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) | 70                               | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Izod Impact (23°C, 3.20 mm)     | 120                              | J/m               | ASTM D256A  |

| Thermal                                 | Nominal Value                | Unit     | Test Method |
|-----------------------------------------|------------------------------|----------|-------------|
| Heat Deflection Temperature             |                              |          |             |
| 0.45 MPa, Unannealed                    | 260                          | °C       | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 255                          | °C       | ISO 75-2/A  |
| Continuous Use Temperature <sup>2</sup> | 130                          | °C       |             |
| Vicat Softening Temperature             | 255                          | °C       | ISO 306/B50 |
| CLTE - Flow (30 to 100°C)               | 8.0E-6                       | cm/cm/°C | ASTM D696   |
| Injection                               | Nominal Value                | Unit     |             |
| Drying Temperature                      | 90.0 to 100                  | °C       |             |
| Drying Time                             | 3.0                          | hr       |             |
| Processing (Melt) Temp                  | 275 to 300                   | °C       |             |
| Mold Temperature                        | 80.0 to 100                  | °C       |             |
| Injection Rate                          | Moderate                     |          |             |
| NOTE                                    |                              |          |             |
| 1.                                      | at 60 Mpa of cavity pressure |          |             |
| 2.                                      | 20,000 hr                    |          |             |

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