

# Latigloss 62 H2 G/50

Polyamide 6

LATI S.p.A.

Message:

Compound based on Polyamide 6 (PA 6).  
Heat stabilised. Glass fibres.

| General Information                     |                                  |                   |             |
|-----------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                  | Glass Fiber,50% Filler by Weight |                   |             |
| Additive                                | Heat Stabilizer                  |                   |             |
| Features                                | Heat Stabilized                  |                   |             |
| Physical                                | Nominal Value                    | Unit              | Test Method |
| Density                                 | 1.55                             | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup>          |                                  |                   | ISO 294-4   |
| Across Flow : 2.00 mm                   | 0.50 to 0.70                     | %                 |             |
| Flow : 2.00 mm                          | 0.20 to 0.45                     | %                 |             |
| Mechanical                              | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                         |                                  |                   | ISO 527-2/1 |
| 23°C                                    | 14500                            | MPa               |             |
| 60°C                                    | 10500                            | MPa               |             |
| 90°C                                    | 6500                             | MPa               |             |
| 120°C                                   | 5200                             | MPa               |             |
| 150°C                                   | 5000                             | MPa               |             |
| Tensile Stress                          |                                  |                   | ISO 527-2/5 |
| Break, 23°C                             | 200                              | MPa               |             |
| Break, 60°C                             | 140                              | MPa               |             |
| Break, 90°C                             | 85.0                             | MPa               |             |
| Break, 120°C                            | 65.0                             | MPa               |             |
| Break, 150°C                            | 55.0                             | MPa               |             |
| Tensile Strain                          |                                  |                   | ISO 527-2/5 |
| Break, 23°C                             | 2.8                              | %                 |             |
| Break, 60°C                             | 4.0                              | %                 |             |
| Break, 90°C                             | 6.0                              | %                 |             |
| Break, 120°C                            | 8.0                              | %                 |             |
| Break, 150°C                            | 9.0                              | %                 |             |
| 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) | 80                               | 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                    | 210                          | °C       | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 185                          | °C       | ISO 75-2/A  |
| Continuous Use Temperature <sup>2</sup> | 130                          | °C       |             |
| Vicat Softening Temperature             | 210                          | °C       | ISO 306/B50 |
| CLTE - Flow (30 to 100°C)               | 1.0E-5                       | cm/cm/°C | ASTM D696   |
| Injection                               | Nominal Value                | Unit     |             |
| Drying Temperature                      | 90.0 to 100                  | °C       |             |
| Drying Time                             | 3.0                          | hr       |             |
| Processing (Melt) Temp                  | 250 to 290                   | °C       |             |
| Mold Temperature                        | 90.0 to 120                  | °C       |             |
| Injection Rate                          | Moderate                     |          |             |
| NOTE                                    |                              |          |             |
| 1.                                      | at 60 MPa of cavity pressure |          |             |
| 2.                                      | 20,000 hr                    |          |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

