

# Latigloss 57 G/50 F2

Polyphthalamide

LATI S.p.A.

## Message:

Product with high mechanical properties and exceptional surface finish based on Semi-aromatic polyamide (PPA).  
Glass fibres. Potentially suitable for food/medical contact application.

| General Information    |                                  |
|------------------------|----------------------------------|
| Filler / Reinforcement | Glass Fiber,50% Filler by Weight |
| Features               | Good Surface Finish              |
| Uses                   | Medical/Healthcare Applications  |
|                        | Non-specific Food Applications   |
| Agency Ratings         | ACS Unspecified Rating           |
|                        | DVGW W270                        |
|                        | KTW Unspecified Rating           |
|                        | NSF 61                           |
|                        | WRAS Unspecified Rating          |

| Physical                       | Nominal Value | Unit              | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| Density                        | 1.63          | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> |               |                   | ISO 294-4   |
| Across Flow : 2.00 mm          | 0.30 to 0.50  | %                 |             |
| Flow : 2.00 mm                 | 0.15 to 0.30  | %                 |             |
| Mechanical                     | Nominal Value | Unit              | Test Method |
| Tensile Modulus                |               |                   | ISO 527-2/1 |
| 23°C                           | 180000        | MPa               |             |
| 60°C                           | 15500         | MPa               |             |
| 90°C                           | 14000         | MPa               |             |
| 120°C                          | 11000         | MPa               |             |
| 150°C                          | 5500          | MPa               |             |
| Tensile Stress                 |               |                   | ISO 527-2/5 |
| Break, 23°C                    | 240           | MPa               |             |
| Break, 60°C                    | 225           | MPa               |             |
| Break, 90°C                    | 190           | MPa               |             |
| Break, 120°C                   | 130           | MPa               |             |
| Break, 150°C                   | 70.0          | MPa               |             |
| Tensile Strain                 |               |                   | ISO 527-2/5 |
| Break, 23°C                    | 1.8           | %                 |             |
| Break, 60°C                    | 2.0           | %                 |             |

| Break, 90°C                             | 2.1           | %                 |             |
|-----------------------------------------|---------------|-------------------|-------------|
| Break, 120°C                            | 3.5           | %                 |             |
| Break, 150°C                            | 6.0           | %                 |             |
| Impact                                  | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)   | 9.0           | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 70            | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                 | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature             |               |                   |             |
| 0.45 MPa, Unannealed                    | 285           | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 260           | °C                | ISO 75-2/A  |
| Continuous Use Temperature <sup>2</sup> | 150           | °C                |             |
| Vicat Softening Temperature             | 260           | °C                | ISO 306/B50 |
| CLTE - Flow (30 to 100°C)               | 3.0E-6        | cm/cm/°C          | ISO 11359-2 |
| Injection                               | Nominal Value | Unit              |             |
| Drying Temperature                      | 120 to 130    | °C                |             |
| Drying Time                             | 3.0           | hr                |             |
| Processing (Melt) Temp                  | 310 to 340    | °C                |             |
| Mold Temperature                        | 150 to 170    | °C                |             |
| Injection Rate                          | Moderate      |                   |             |
| NOTE                                    |               |                   |             |
| 1.                                      | 60 MPa        |                   |             |
| 2.                                      | 20,000 hr     |                   |             |

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