

# Laticonther 57 CPG/550

Polyphthalamide

LATI S.p.A.

## Message:

High thermal conductivity product based on Semi-aromatic polyamide (PPA).  
Special filler. Glass fibres.

| General Information                     |                      |                   |                 |
|-----------------------------------------|----------------------|-------------------|-----------------|
| Filler / Reinforcement                  | Glass Fiber          |                   |                 |
| Features                                | Thermally Conductive |                   |                 |
| Physical                                | Nominal Value        | Unit              | Test Method     |
| Density                                 | 1.99                 | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage <sup>1</sup>          |                      |                   | ISO 294-4       |
| Across Flow : 2.00 mm                   | 0.50 to 0.65         | %                 |                 |
| Flow : 2.00 mm                          | 0.30 to 0.45         | %                 |                 |
| Mechanical                              | Nominal Value        | Unit              | Test Method     |
| Tensile Modulus (23°C)                  | 11000                | MPa               | ISO 527-2/1     |
| Tensile Stress (Break, 23°C)            | 70.0                 | MPa               | ISO 527-2/5     |
| Tensile Strain (Break, 23°C)            | 0.60                 | %                 | ISO 527-2/5     |
| Impact                                  | Nominal Value        | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)   | 2.0                  | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy Unnotched Impact Strength (23°C) | 10                   | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Thermal                                 | Nominal Value        | Unit              | Test Method     |
| Heat Deflection Temperature             |                      |                   |                 |
| 0.45 MPa, Unannealed                    | 120                  | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                     | 90.0                 | °C                | ISO 75-2/A      |
| Vicat Softening Temperature             | 100                  | °C                | ISO 306/B50     |
| Thermal Conductivity                    | 1.2                  | W/m/K             | Internal Method |
| Electrical                              | Nominal Value        | Unit              | Test Method     |
| Surface Resistivity                     | 1.0E+12              | ohms              | ASTM D257       |
| Injection                               | Nominal Value        | Unit              |                 |
| Drying Temperature                      | 120 to 130           | °C                |                 |
| Drying Time                             | 3.0                  | hr                |                 |
| Processing (Melt) Temp                  | 310 to 330           | °C                |                 |
| Mold Temperature                        | 140 to 160           | °C                |                 |
| Injection Rate                          | Moderate             |                   |                 |
| NOTE                                    |                      |                   |                 |
| 1.                                      | 60 MPa               |                   |                 |

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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



WECHAT