

# Latilub 95-25GR CE/10

Polysulfone

LATI S.p.A.

## Message:

Self-lubricating product based on Polysulphone (PSU).

Graphite. Mineral filler.

| General Information                     |                              |                             |             |
|-----------------------------------------|------------------------------|-----------------------------|-------------|
| Filler / Reinforcement                  | Mineral,10% Filler by Weight |                             |             |
| Additive                                | Graphite Powder Lubricant    |                             |             |
| Features                                | Self Lubricating             |                             |             |
| Physical                                | Nominal Value                | Unit                        | Test Method |
| Density                                 | 1.49                         | g/cm <sup>3</sup>           | ISO 1183    |
| Molding Shrinkage <sup>1</sup>          |                              |                             | ISO 294-4   |
| Across Flow : 2.00 mm                   | 0.55 to 0.80                 | %                           |             |
| Flow : 2.00 mm                          | 0.40 to 0.60                 | %                           |             |
| Mechanical                              | Nominal Value                | Unit                        | Test Method |
| Tensile Modulus (23°C)                  | 8500                         | MPa                         | ISO 527-2/1 |
| Tensile Stress (Break, 23°C)            | 65.0                         | MPa                         | ISO 527-2/5 |
| Tensile Strain (Break, 23°C)            | 1.2                          | %                           | ISO 527-2/5 |
| Coefficient of Friction                 |                              |                             | ASTM D3702  |
| vs. Itself - Dynamic                    | 0.18                         |                             |             |
| vs. Itself - Static                     | 0.23                         |                             |             |
| Wear Factor                             | 1.20E-9                      | (m <sup>3</sup> /h)/(N·m·h) | ASTM D3702  |
| 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 |
| Notched Izod Impact (23°C, 3.20 mm)     | 30                           | J/m                         | ASTM D256A  |
| Thermal                                 | Nominal Value                | Unit                        | Test Method |
| Heat Deflection Temperature             |                              |                             |             |
| 0.45 MPa, Unannealed                    | 175                          | °C                          | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 170                          | °C                          | ISO 75-2/A  |
| Vicat Softening Temperature             | 180                          | °C                          | ISO 306/B50 |
| Injection                               | Nominal Value                | Unit                        | Test Method |
| Drying Temperature                      | 110 to 130                   | °C                          |             |
| Drying Time                             | 3.0                          | hr                          |             |
| Processing (Melt) Temp                  | 300 to 330                   | °C                          |             |
| Mold Temperature                        | 100 to 120                   | °C                          |             |
| Injection Rate                          | Moderate                     |                             |             |
| NOTE                                    |                              |                             |             |

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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

