

# Star L PA66 D51

Polyamide 66  
Eurostar Engineering Plastics

Message:  
Star L PA66 D51 is a PTFE Lubricated, Unreinforced, Polyamide 66 Injection Molding Resin

| General Information                                                          |                   |                   |                 |
|------------------------------------------------------------------------------|-------------------|-------------------|-----------------|
| Additive                                                                     | PTFE Lubricant    |                   |                 |
| Features                                                                     | Lubricated        |                   |                 |
| RoHS Compliance                                                              | RoHS Compliant    |                   |                 |
| Processing Method                                                            | Injection Molding |                   |                 |
| Physical                                                                     | Nominal Value     | Unit              | Test Method     |
| Density                                                                      | 1.23              | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow (4.00 mm)                                           | 2.8 to 3.4        | %                 | Internal Method |
| Mechanical                                                                   | Nominal Value     | Unit              | Test Method     |
| Tensile Stress (Yield)                                                       | 71.0              | MPa               | ISO 527-2       |
| Tensile Strain (Break)                                                       | 5.0               | %                 | ISO 527-2       |
| Flexural Modulus                                                             | 2500              | MPa               | ISO 178         |
| Flexural Stress                                                              | 94.0              | MPa               | ISO 178         |
| Impact                                                                       | Nominal Value     | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>1</sup> (23°C)                             | 5.5               | kJ/m <sup>2</sup> | ISO 180/1A      |
| Unnotched Izod Impact Strength <sup>2</sup> (23°C)                           | 34                | kJ/m <sup>2</sup> | ISO 180/1U      |
| Thermal                                                                      | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature <sup>3</sup> (1.8 MPa, Unannealed, 64.0 mm Span) | 202               | °C                | ISO 75-2/Af     |
| Melting Temperature (DSC)                                                    | 265               | °C                | ISO 3146        |
| Injection                                                                    | Nominal Value     | Unit              |                 |
| Drying Temperature                                                           | 80.0              | °C                |                 |
| Drying Time                                                                  | 4.0               | hr                |                 |
| Suggested Max Moisture                                                       | 0.15 to 0.25      | %                 |                 |
| Rear Temperature                                                             | 265 to 275        | °C                |                 |
| Middle Temperature                                                           | 270 to 280        | °C                |                 |
| Front Temperature                                                            | 270 to 280        | °C                |                 |
| Processing (Melt) Temp                                                       | 270 to 280        | °C                |                 |
| Mold Temperature                                                             | 60.0 to 100       | °C                |                 |
| NOTE                                                                         |                   |                   |                 |
| 1.                                                                           | 80*10*4           |                   |                 |
| 2.                                                                           | 80*10*4           |                   |                 |
| 3.                                                                           | 80*10*4           |                   |                 |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

