

# Nylux 6/G20FL

Polyamide 6

KMI Group, Inc.

## Message:

Nylux 6/G20FL is a polyamide 6 (nylon 6) product, which contains a 33% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The main characteristics are: flame retardant/rated flame.

| General Information          |                                                       |                   |             |
|------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement       | Glass fiber reinforced material, 33% filler by weight |                   |             |
| Forms                        | Particle                                              |                   |             |
| Processing Method            | Injection molding                                     |                   |             |
| Physical                     | Nominal Value                                         | Unit              | Test Method |
| Density                      | 1.26                                                  | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage (23°C)     | 0.30 - 0.70                                           | %                 | ISO 2577    |
| Hardness                     | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)  | 120                                                   |                   | ISO 2039-2  |
| Mechanical                   | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus (23°C)       | 6000                                                  | MPa               | ISO 527-2/1 |
| Tensile Stress (Break, 23°C) | 130                                                   | MPa               | ISO 527-2/5 |
| Impact                       | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact          | 4.5                                                   | kJ/m <sup>2</sup> | ISO 180/1A  |
| Thermal                      | Nominal Value                                         | Unit              | Test Method |
| Heat Deflection Temperature  |                                                       |                   |             |
| 0.45 MPa, not annealed       | 210                                                   | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed        | 195                                                   | °C                | ISO 75-2/A  |
| Vicat Softening Temperature  | 210                                                   | °C                | ISO 306/B50 |
| Melting Temperature (DSC)    | 220                                                   | °C                | ISO 3146    |
| Electrical                   | Nominal Value                                         | Unit              | Test Method |
| Surface Resistivity          | 1.0E+13                                               | ohms              | IEC 60093   |
| Volume Resistivity           | 1.0E+15                                               | ohms · cm         | IEC 60093   |
| Flammability                 | Nominal Value                                         | Unit              | Test Method |
| Flame Rating (0.8 mm)        | HB                                                    |                   | UL 94       |
| Injection                    | Nominal Value                                         | Unit              |             |
| Drying Temperature           | 75 - 85                                               | °C                |             |
| Drying Time                  | 4.0 - 6.0                                             | hr                |             |
| Suggested Max Regrind        | 20                                                    | %                 |             |
| Processing (Melt) Temp       | 235 - 275                                             | °C                |             |
| Mold Temperature             | 70 - 120                                              | °C                |             |
| Back Pressure                | 0.300 - 0.500                                         | MPa               |             |

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

