

# Titalon® 3400GF

Polyamide 12

Titan Plastics Compounds Co., Ltd.

## Message:

Titalon® 3400GF is a polyamide 12 (nylon 12) material, which contains a 40% glass fiber reinforced material. This product is available in the Asia-Pacific region.

Titalon®The main features of 3400GF are:

flame retardant/rated flame

high strength

| General Information                                        |                                                       |                   |             |
|------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Glass fiber reinforced material, 40% filler by weight |                   |             |
| Features                                                   | High strength                                         |                   |             |
| Appearance                                                 | Natural color                                         |                   |             |
| Physical                                                   | Nominal Value                                         | Unit              | Test Method |
| Density                                                    | 1.31                                                  | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> (3.00 mm)                   | 0.20 - 0.50                                           | %                 |             |
| Mechanical                                                 | Nominal Value                                         | Unit              | Test Method |
| Tensile Stress                                             | 125                                                   | MPa               | ISO 527-2   |
| Tensile Strain (Break)                                     | > 4.0                                                 | %                 | ISO 527-2   |
| Flexural Modulus                                           | 7330                                                  | MPa               | ISO 178     |
| Flexural Stress                                            | 200                                                   | MPa               | ISO 178     |
| Impact                                                     | Nominal Value                                         | Unit              | Test Method |
| Charpy Notched Impact Strength                             | 20                                                    | kJ/m <sup>2</sup> | ISO 179/1eA |
| Thermal                                                    | Nominal Value                                         | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed)          | 140                                                   | °C                | ISO 75-2/A  |
| Electrical                                                 | Nominal Value                                         | Unit              | Test Method |
| Surface Resistivity                                        | 1.0E+14                                               | ohms              | IEC 60093   |
| Volume Resistivity                                         | 1.0E+14                                               | ohms · cm         | IEC 60093   |
| Flammability                                               | Nominal Value                                         | Unit              | Test Method |
| Flame Rating                                               | HB                                                    |                   | UL 94       |
| Injection                                                  | Nominal Value                                         | Unit              |             |
| Drying Temperature                                         | 80.0 - 100                                            | °C                |             |
| Drying Time                                                | 4.0                                                   | hr                |             |
| Processing (Melt) Temp                                     | 200 - 230                                             | °C                |             |
| Mold Temperature                                           | 60.0 - 100                                            | °C                |             |
| Injection instructions                                     |                                                       |                   |             |
| Injection Pressure: 30 to 70%Injection Velocity: 30 to 60% |                                                       |                   |             |
| NOTE                                                       |                                                       |                   |             |
| 1.                                                         | 50x70x3 mm                                            |                   |             |

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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

