

# Titalon® 4200GF

Polyamide 46

Titan Plastics Compounds Co., Ltd.

## Message:

Titalon®4200GF is a polyamide 46 (nylon 46) material, and the filler is 20% carbon fiber reinforced material. This product is available in the Asia-Pacific region. Titalon®The main characteristics of 4200GF are: flame retardant/rated flame.

| General Information                                        |                                                        |                   |             |
|------------------------------------------------------------|--------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Carbon fiber reinforced material, 20% filler by weight |                   |             |
| Appearance                                                 | Natural color                                          |                   |             |
| Physical                                                   | Nominal Value                                          | Unit              | Test Method |
| Density                                                    | 1.33                                                   | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> (3.00 mm)                   | 0.30 - 0.80                                            | %                 |             |
| Mechanical                                                 | Nominal Value                                          | Unit              | Test Method |
| Tensile Stress                                             | 165                                                    | MPa               | ISO 527-2   |
| Tensile Strain (Break)                                     | > 3.5                                                  | %                 | ISO 527-2   |
| Flexural Modulus                                           | 8000                                                   | MPa               | ISO 178     |
| Flexural Stress                                            | 245                                                    | MPa               | ISO 178     |
| Impact                                                     | Nominal Value                                          | Unit              | Test Method |
| Charpy Notched Impact Strength                             | 11                                                     | kJ/m <sup>2</sup> | ISO 179/1eA |
| Thermal                                                    | Nominal Value                                          | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed)          | 250                                                    | °C                | ISO 75-2/A  |
| Electrical                                                 | Nominal Value                                          | Unit              | Test Method |
| Surface Resistivity                                        | 1.0E+13                                                | ohms              | IEC 60093   |
| Volume Resistivity                                         | 1.0E+13                                                | ohms·cm           | IEC 60093   |
| Flammability                                               | Nominal Value                                          | Unit              | Test Method |
| Flame Rating                                               | HB                                                     |                   | UL 94       |
| Injection                                                  | Nominal Value                                          | Unit              |             |
| Drying Temperature                                         | 100                                                    | °C                |             |
| Drying Time                                                | 4.0                                                    | hr                |             |
| Processing (Melt) Temp                                     | 290 - 320                                              | °C                |             |
| Mold Temperature                                           | 80.0 - 120                                             | °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

