

# Titalon® 1300CF

Polyamide 6

Titan Plastics Compounds Co., Ltd.

## Message:

Titalon® 1300CF is a polyamide 6 (nylon 6) material, which contains a 30% carbon fiber reinforced material. This product is available in the Asia-Pacific region.

Titalon®The main features of 1300CF are:

flame retardant/rated flame

high strength

| General Information                                        |                                                        |                   |             |
|------------------------------------------------------------|--------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Carbon fiber reinforced material, 30% filler by weight |                   |             |
| Features                                                   | High strength                                          |                   |             |
| Appearance                                                 | Black                                                  |                   |             |
| Physical                                                   | Nominal Value                                          | Unit              | Test Method |
| Density                                                    | 1.27                                                   | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup> (3.00 mm)                   | 0.10 - 0.30                                            | %                 |             |
| Mechanical                                                 | Nominal Value                                          | Unit              | Test Method |
| Tensile Stress                                             | 230                                                    | MPa               | ISO 527-2   |
| Tensile Strain (Break)                                     | > 3.0                                                  | %                 | ISO 527-2   |
| Flexural Modulus                                           | 18000                                                  | MPa               | ISO 178     |
| Flexural Stress                                            | 350                                                    | 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)          | 205                                                    | °C                | ISO 75-2/A  |
| Electrical                                                 | Nominal Value                                          | Unit              | Test Method |
| Surface Resistivity                                        | 1.0E+3                                                 | ohms              | IEC 60093   |
| Volume Resistivity                                         | 1.0E+2                                                 | 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                                     | 230 - 260                                              | °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

