

# HiFill® PA6 0685

Polyamide 6

Techmer Engineered Solutions

## Message:

HiFill® PA6 0685 is a Polyamide 6 (Nylon 6) product filled with filler. It can be processed by injection molding and is available in North America.

| General Information                                     |                       |                   |             |
|---|-----------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Filler                |                   |             |
| Features  | High Specific Gravity |                   |             |
| Appearance  | Colors Available      |                   |             |
| Forms   | Pellets               |                   |             |
| Processing Method                                       | Injection Molding     |                   |             |
| Physical  | Nominal Value         | Unit              | Test Method |
| Specific Gravity  | 6.83                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)                      | 0.40                  | %                 | ASTM D955   |
| Water Absorption (24 hr)                                | 0.10                  | %                 | ASTM D570   |
| Mechanical  | Nominal Value         | Unit              | Test Method |
| Tensile Strength (Yield)                                | 44.8                  | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 1.0                   | %                 | ASTM D638   |
| Flexural Modulus  | 8270                  | MPa               | ASTM D790   |
| Flexural Strength                                       | 48.3                  | MPa               | ASTM D790   |
| Impact  | Nominal Value         | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                     | 53                    | J/m               | ASTM D256   |
| Thermal   | Nominal Value         | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 124                   | °C                | ASTM D648   |
| Electrical  | Nominal Value         | Unit              | Test Method |
| Volume Resistivity                                      | 1.0E+13 to 1.0E+15    | ohms · cm         | ASTM D257   |

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## 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



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