

# HiFill® ABS GF30

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

## Message:

HiFill® ABS GF30 is an Acrylonitrile Butadiene Styrene (ABS) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America.

| General Information                 |                                  |                   |             |
|-------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement              | Glass Fiber,30% Filler by Weight |                   |             |
| Appearance                          | Colors Available                 |                   |             |
| Forms                               | Pellets                          |                   |             |
| Processing Method                   | Injection Molding                |                   |             |
| Physical                            | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                    | 1.45                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)  | 0.30                             | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.12                             | %                 | ASTM D570   |
| Mechanical                          | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Break)            | 114                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus                    | 8270                             | MPa               | ASTM D790   |
| Flexural Strength                   | 165                              | MPa               | ASTM D790   |
| Impact                              | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 100                              | J/m               | ASTM D256   |
| Thermal                             | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load   |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                | 210                              | °C                |             |
| 1.8 MPa, Unannealed                 | 188                              | °C                |             |
| Electrical                          | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                  | 1.0E+16                          | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>1</sup>    | 17                               | kV/mm             | ASTM D149   |
| Injection                           | Nominal Value                    | Unit              |             |
| Drying Temperature                  | 76.7 to 87.8                     | °C                |             |
| Drying Time                         | 2.0 to 16                        | hr                |             |
| Rear Temperature                    | 216 to 232                       | °C                |             |
| Middle Temperature                  | 221 to 238                       | °C                |             |
| Front Temperature                   | 210 to 221                       | °C                |             |
| Nozzle Temperature                  | 199 to 221                       | °C                |             |
| Processing (Melt) Temp              | 232 to 260                       | °C                |             |
| Mold Temperature                    | 71.1 to 87.8                     | °C                |             |
| NOTE                                |                                  |                   |             |

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

