

# HiFill® HIPS GF30

High Impact Polystyrene

Techmer Engineered Solutions

## Message:

HiFill® HIPS GF30 is a High Impact Polystyrene product filled with 30% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

| 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                    | 1.25                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)  | 0.20                             | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.070                            | %                 | ASTM D570   |
| Hardness                            | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)         | 120                              |                   | ASTM D785   |
| Mechanical                          | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Break)            | 65.5                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 1.0                              | %                 | ASTM D638   |
| Flexural Modulus                    | 7240                             | MPa               | ASTM D790   |
| Flexural Strength                   | 89.6                             | MPa               | ASTM D790   |
| Impact                              | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 64                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)     | 210                              | J/m               | ASTM D256   |
| Thermal                             | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load   |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                | 104                              | °C                |             |
| 1.8 MPa, Unannealed                 | 93.3                             | °C                |             |
| CLTE - Flow                         | 3.1E-5                           | cm/cm/°C          | ASTM D696   |
| Electrical                          | Nominal Value                    | Unit              | Test Method |
| Volume Resistivity                  | 1.0E+16                          | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>1</sup>    | 18                               | kV/mm             | ASTM D149   |
| Flammability                        | Nominal Value                    | Unit              | Test Method |
| Flame Rating                        | HB                               |                   | UL 94       |
| NOTE                                |                                  |                   |             |
| 1.                                  | Method A (Short-Time)            |                   |             |

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