

# HiFill® ABS E GM30 LE

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

## Message:

HiFill® ABS E GM30 LE is an Acrylonitrile Butadiene Styrene (ABS) product filled with 30% glass fiber. It can be processed by extrusion and is available in North America.

| General Information                 |                                  |                   |             |
|-------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement              | Glass Fiber,30% Filler by Weight |                   |             |
| Features                            | Low Extractables                 |                   |             |
| Appearance                          | Colors Available                 |                   |             |
| Forms                               | Pellets                          |                   |             |
| Processing Method                   | Extrusion                        |                   |             |
| Physical                            | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                    | 1.28                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)  | 0.10                             | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.12                             | %                 | ASTM D570   |
| Hardness                            | Nominal Value                    | Unit              | Test Method |
| Rockwell Hardness (R-Scale)         | 108                              |                   | ASTM D785   |
| Mechanical                          | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Break)            | 100                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus                    | 7580                             | MPa               | ASTM D790   |
| Flexural Strength                   | 128                              | MPa               | ASTM D790   |
| Impact                              | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 80                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)     | 400                              | J/m               | ASTM D256   |
| Thermal                             | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load   |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                | 112                              | °C                |             |
| 1.8 MPa, Unannealed                 | 103                              | °C                |             |
| CLTE - Flow                         | 2.9E-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   |
| NOTE                                |                                  |                   |             |

1. Method A (Short-Time)

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