

# HiFill® PA4/6 HS

Polyamide 46  
Techmer Engineered Solutions

Message:

HiFill® PA4/6 HS is a Polyamide 46 (Nylon 46) product. It can be processed by injection molding and is available in North America. Primary characteristic: heat stabilizer.

| General Information                |                   |                   |             |
|------------------------------------|-------------------|-------------------|-------------|
| Additive                           | Heat Stabilizer   |                   |             |
| Features                           | Heat Stabilized   |                   |             |
| Appearance                         | Colors Available  |                   |             |
| Forms                              | Pellets           |                   |             |
| Processing Method                  | Injection Molding |                   |             |
| Physical                           | Nominal Value     | Unit              | Test Method |
| Specific Gravity                   | 1.18              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 1.8               | %                 | ASTM D955   |
| Water Absorption (24 hr)           | 2.3               | %                 | ASTM D570   |
| Hardness                           | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 100               |                   | ASTM D785   |
| Mechanical                         | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Yield)           | 100               | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 40                | %                 | ASTM D638   |
| Flexural Modulus                   | 3000              | MPa               | ASTM D790   |
| Flexural Strength                  | 103               | MPa               | ASTM D790   |
| Impact                             | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact                |                   |                   | ASTM D256   |
| -40°C, 3.18 mm                     | 75                | J/m               |             |
| 23°C, 3.18 mm                      | 80                | J/m               |             |
| Unnotched Izod Impact (3.18 mm)    | No Break          |                   | ASTM D256   |
| Thermal                            | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load  |                   |                   | ASTM D648   |
| 0.45 MPa, Unannealed               | 221               | °C                |             |
| 1.8 MPa, Unannealed                | 160               | °C                |             |
| CLTE - Flow                        | 9.0E-5            | cm/cm/°C          | ASTM D696   |
| Electrical                         | Nominal Value     | Unit              | Test Method |
| Volume Resistivity                 | 1.0E+14           | ohms · cm         | ASTM D257   |
| Dielectric Strength <sup>1</sup>   | 22                | kV/mm             | ASTM D149   |
| NOTE                               |                   |                   |             |

1. Method A (Short-Time)

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