

## HiFill® PA6 E2

Techmer Polymer Modifiers - *Polyamide 6*

### General Information

#### General

|                   |                      |
|-------------------|----------------------|
| Material Status   | • Commercial: Active |
| Availability      | • North America      |
| Appearance        | • Colors Available   |
| Forms             | • Pellets            |
| Processing Method | • Extrusion          |

### Properties <sup>1</sup>

| Physical                                                | Nominal Value | Unit               | Test Method |
|---------------------------------------------------------|---------------|--------------------|-------------|
| Density / Specific Gravity                              | 1.13          |                    | ASTM D792   |
| Molding Shrinkage - Flow                                | 0.011         | in/in              | ASTM D955   |
| Water Absorption (24 hr)                                | 2.8           | %                  | ASTM D570   |
| Viscosity Number (90% HCOOH (Formic Acid))              | 75.0          | cm <sup>3</sup> /g | ISO 307     |
| Mechanical                                              | Nominal Value | Unit               | Test Method |
| Tensile Strength (Yield)                                | 13100         | psi                | ASTM D638   |
| Tensile Elongation (Break)                              | 70            | %                  | ASTM D638   |
| Flexural Modulus                                        | 410000        | psi                | ASTM D790   |
| Flexural Strength                                       | 16700         | psi                | ASTM D790   |
| Impact                                                  | Nominal Value | Unit               | Test Method |
| Notched Izod Impact (0.125 in)                          | 1.1           | ft-lb/in           | ASTM D256   |
| Hardness                                                | Nominal Value | Unit               | Test Method |
| Rockwell Hardness (R-Scale)                             | 119           |                    | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit               | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 352           | °F                 | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 170           | °F                 | ASTM D648   |
| CLTE - Flow                                             | 4.6E-5        | in/in/°F           | ASTM D696   |
| Electrical                                              | Nominal Value | Unit               | Test Method |
| Volume Resistivity                                      | 1.0E+13       | ohms·cm            | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 460           | V/mil              | ASTM D149   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

