

## HiFill® TPX-HTN-01036 A

Techmer Polymer Modifiers - *Polyamide*

### General Information

#### General

|                        |                                               |
|------------------------|-----------------------------------------------|
| Material Status        | • Commercial: Active                          |
| Availability           | • North America                               |
| Filler / Reinforcement | • Mineral, 30% Filler by Weight               |
| Additive               | • Heat Stabilizer                             |
| Features               | • Heat Stabilized • High Temperature Strength |
| UL File Number         | • E157318                                     |
| Appearance             | • Colors Available                            |
| Forms                  | • Pellets                                     |
| Processing Method      | • Injection Molding                           |

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

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.45          |          | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 8.0E-3        | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.14          | %        | ASTM D570   |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Strength (Break)                                | 15000         | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 1.5           | %        | ASTM D638   |
| Flexural Modulus                                        | 1.00E+6       | psi      | ASTM D790   |
| Flexural Strength                                       | 29000         | psi      | ASTM D790   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (73°F, 0.125 in)                    | 0.80          | ft·lb/in | ASTM D256   |
| Hardness                                                | Nominal Value | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                             | 126           |          | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 500           | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 318           | °F       | ASTM D648   |
| Continuous Use Temperature                              | 285           | °F       | ASTM D794   |
| CLTE - Flow                                             | 2.4E-5        | in/in/°F | ASTM D696   |
| Electrical                                              | Nominal Value | Unit     | Test Method |
| Volume Resistivity                                      | 1.0E+15       | ohms·cm  | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 450           | V/mil    | ASTM D149   |
| Flammability                                            | Nominal Value | Unit     | Test Method |
| Flame Rating                                            | HB            |          | UL 94       |

### Notes

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

