

**HiFill® TPX-PA6/6 97058 BK**

 Techmer Polymer Modifiers - *Polyamide 66*
**General Information**
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|                        |                                       |
|------------------------|---------------------------------------|
| Material Status        | • Commercial: Active                  |
| Availability           | • North America                       |
| Filler / Reinforcement | • Mineral, 32% Filler by Weight       |
| Additive               | • Lubricant                           |
| Features               | • High Impact Resistance • Lubricated |
| UL File Number         | • E157318                             |
| Appearance             | • Black                               |
| Forms                  | • Pellets                             |
| Processing Method      | • Injection Molding                   |

**Properties <sup>1</sup>**

| <b>Physical</b>   | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
|---|----------------------|-------------|--------------------|
| Density / Specific Gravity                              | 1.39                 |             | ASTM D792          |
| Molding Shrinkage - Flow (0.125 in)                     | 0.010                | in/in       | ASTM D955          |
| Water Absorption (24 hr)                                | 0.70                 | %           | ASTM D570          |
| <b>Mechanical</b>                                       | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Tensile Strength (Break)                                | 11200                | psi         | ASTM D638          |
| Tensile Elongation (Yield)                              | 3.0                  | %           | ASTM D638          |
| Flexural Modulus  | 655000               | psi         | ASTM D790          |
| Flexural Strength                                       | 16800                | psi         | ASTM D790          |
| <b>Impact</b>   | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Notched Izod Impact (73°F, 0.125 in)                    | 1.0                  | ft·lb/in    | ASTM D256          |
| Unnotched Izod Impact (0.125 in)                        | 28                   | ft·lb/in    | ASTM D4812         |
| <b>Hardness</b>   | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Rockwell Hardness (R-Scale)                             | 120                  |             | ASTM D785          |
| <b>Thermal</b>  | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 420                  | °F          | ASTM D648          |
| Deflection Temperature Under Load (264 psi, Unannealed) | 165                  | °F          | ASTM D648          |
| CLTE - Flow   | 3.0E-5               | in/in/°F    | ASTM D696          |
| <b>Electrical</b>                                       | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Volume Resistivity                                      | 1.0E+13              | ohms·cm     | ASTM D257          |
| Dielectric Strength (Method A (Short-Time))             | 380                  | V/mil       | ASTM D149          |
| <b>Flammability</b>                                     | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Flame Rating  | HB                   |             | UL 94              |

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