

## HiFill® TPU/E 0140

Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*

### General Information

#### General

|                   |                      |
|-------------------|----------------------|
| Material Status   | • Commercial: Active |
| Availability      | • North America      |
| Features          | • High Density       |
| Appearance        | • Colors Available   |
| Forms             | • Pellets            |
| Processing Method | • Injection Molding  |

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

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.40          |          | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 6.0E-3        | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 0.025         | %        | ASTM D570   |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Strength (Yield)                                | 6500          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 370           | %        | ASTM D638   |
| Flexural Modulus                                        | 29000         | psi      | ASTM D790   |
| Flexural Strength                                       | 4900          | psi      | ASTM D790   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (73°F, 0.125 in)                    | 5.0           | ft·lb/in | ASTM D256   |
| Hardness                                                | Nominal Value | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                             | 80            |          | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 118           | °F       | ASTM D648   |

### Notes

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

