

HiFill® PA6/6 WM40 IM HS

 Techmer Polymer Modifiers - *Polyamide 66*
General Information

| General | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Mineral, 40% Filler by Weight |
| Additive | • Heat Stabilizer • Impact Modifier |
| Features | • Heat Stabilized • Impact Modified |
| Appearance | • Colors Available |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Density / Specific Gravity | 1.47 | | ASTM D792 |
| Molding Shrinkage - Flow (0.125 in) | 9.0E-3 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 0.70 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 13200 | psi | ASTM D638 |
| Tensile Elongation (Yield) | 15 | % | ASTM D638 |
| Flexural Modulus | 810000 | psi | ASTM D790 |
| Flexural Strength (Yield) | 20000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (0.125 in) | 1.3 | ft·lb/in | ASTM D256 |
| Unnotched Izod Impact (0.125 in) | 14 | ft·lb/in | ASTM D4812 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 121 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 450 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed) | 195 | °F | ASTM D648 |
| CLTE - Flow | 4.0E-6 | 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
¹ Typical properties: these are not to be construed as specifications.
