

HiFill® PA6/6 E5 LE

 Techmer Polymer Modifiers - *Polyamide 66*
General Information

| General | | | |
|------------------------|----------------------|-------------------|-------------------|
| Material Status | • Commercial: Active | | |
| Availability | • North America | | |
| Filler / Reinforcement | • Glass Fiber | | |
| Additive | • Flame Retardant | • Impact Modifier | |
| Features | • Flame Retardant | • Halogen Free | • Impact Modified |
| Appearance | • Colors Available | | |
| Processing Method | • Injection Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------------|-------------|--------------------|
| Density / Specific Gravity | 1.40 | | ASTM D792 |
| Molding Shrinkage - Flow (0.125 in) | 0.018 | in/in | ASTM D955 |
| Water Absorption (24 hr) | 1.2 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 12000 | psi | ASTM D638 |
| Tensile Elongation (Break) | 60 | % | ASTM D638 |
| Flexural Modulus | 420000 | psi | ASTM D790 |
| Flexural Strength | 20000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 1.1 | ft·lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 105 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 459 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed) | 190 | °F | ASTM D648 |
| CLTE - Flow | 4.3E-5 | in/in/°F | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+13 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+13 | ohms·cm | ASTM D257 |
| Dielectric Strength (Method A (Short-Time)) | 450 | V/mil | ASTM D149 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.06 in | | V-2 | |
| 0.13 in | | V-0 | |

