

HiFill® PA11

Polyamide 11
Techmer Engineered Solutions

Message:

HiFill® PA11 is a Polyamide 11 (Nylon 11) product. It can be processed by injection molding and is available in North America. Primary characteristic: medium viscosity.

| General Information | | | |
|------------------------------------|-------------------|-------------------|-------------|
| Features | Medium Viscosity | | |
| Appearance | Colors Available | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.03 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 1.5 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.90 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 108 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 65.5 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 10 | % | ASTM D638 |
| Flexural Modulus | 1100 | MPa | ASTM D790 |
| Flexural Strength | 75.8 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 75 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 45.0 | °C | |
| 1.8 MPa, Unannealed | 23.9 | °C | |
| CLTE - Flow | 1.3E-4 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+11 | ohms · cm | ASTM D257 |
| Dielectric Strength ¹ | 18 | kV/mm | ASTM D149 |
| Additional Information | Nominal Value | | |
| TPCI # | 6486106 | | |
| NOTE | | | |

1. Method A (Short-Time)

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