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# TriLON™ 61BGM40 (U,L,HS,N) ISO

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## Polyamide Nylon 6

### General Information

#### Product Description

General purpose, 40% Glass Mineral Reinforced Nylon 6 offered with various additives

| FEATURES | | ADDITIONAL FORMULAS | COLOR |
|---|---|---|---|
| -Superior Strengt | -Oil/Solvent Resistant | -Added Lubricant "L" | -All |
| -Fast Cyling | -High Rigidity | -Additional UV "U" | -Translucent/Opaque |
| -Excellent Chemical Resistance | | -Additonal Heat Stabilizers "HS" | |
| -Gasoline Resistant | | -Nucleated "N" | |
| -40% Glass Mineral Reinforced | | | |

#### General

| | |
|---|---|
| **Typical Applications** | -Appliance, automotive, general, pumps, impellers, housings |
| **Processing Method** | -Injection |
| **Form(s)** | -Pellets |
| **Compliance** | -RoHS Compliant - TVT |
| **Availability** | -North America, Europe, Latin America |

### ASTM / ISO Properties[1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.49 | g/cm³ | ISO 1183A |
| Molding Shrinkage - Flow (3.2mm) | 0.3 to 0.6 | % | TVT Internal |
| Outdoor Suitability (QUV) ("U" Grades) | Pass | | TVT Internal |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength, brk | 135 | MPa | ISO 527 |
| Tensile Strain | >2 | % | ISO 527 |
| Flexural Modulus | 8200 | MPa | ISO 178 |
| Charpy Notched 23°C | 5 | kj/m2 | ISO 179 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (1.8 MPa) | 200 | °C | ISO 75 |
| Melting Point | 220 | °C | TVT Internal |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| 0.06 in | HB | | UL94 - TVT Internal |

### Recommended Processing Guidance

| | | |
|---|---|---|
| Drying Temperature | 150 to 175 | °F |
| Drying Time - DESSICANT | 3 to 6 | Hours |
| Suggested Max Moisture | 0.2 | % |
| Processing Melt Temperature | 540 to 570 | °F |
| Mold Temperature | 140 to 200 | °F |

1 Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.