

PolyOne Gravi-Tech™ GRV-NY-060-CU Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Gravi-Tech-GRV-NY-060-CU-Polyamide-6-Nylon-6.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 5.99 g/cc | 5.99 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-------------------------------|
| Tensile Strength, Yield | 45.5 MPa | 6600 psi | Type I, 5.1 mm/min; ASTM D638 |
| Elongation at Break | 1.2 % | 1.2 % | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 16.5 GPa | 2390 ksi | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Yield Strength | >= 70.0 MPa | >= 10200 psi | ASTM D790 |
| Flexural Modulus | 14.5 GPa | 2100 ksi | ASTM D790 |
| Charpy Impact Unnotched | >= 0.600 J/cm ² @Temperature 23.0 °C | >= 2.86 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |
| Charpy Impact, Notched | >= 0.250 J/cm ² @Temperature 23.0 °C | >= 1.19 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 152 °C @Thickness 6.35 mm | 306 °F @Thickness 0.250 in | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|--------------|----------|
| Melt Temperature | 260 - 288 °C | 500 - 550 °F | |
| Mold Temperature | 82.2 - 149 °C | 180 - 300 °F | |
| Drying Temperature | 79.4 °C | 175 °F | |
| Dry Time | 4.00 hour | 4.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------------|----------|
| Features | Non-Toxic | |
| Forms | Pellets | |
| Generic Material | Nylon 6 | |
| Generic Name | Polyamide 6 (Nylon 6) | |
| Processing Method | Injection Molding | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Uses | Industrial Applications | |
| | Medical/Healthcare Applications | |
| | Projectiles | |
| | Sporting Goods | |
| | Weighting & Balancing | |

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