

# Gravi-Tech™ GRV-NY-030-SS

Polyamide 6  
PolyOne Corporation

Message:

Gravi-Tech™ GRV-NY-030-SS is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in Asia Pacific. Applications of Gravi-Tech™ GRV-NY-030-SS include industrial applications, medical/healthcare and sporting goods. Primary characteristic: non-toxic.

| General Information   |                                 |                   |             |
|---|---------------------------------|-------------------|-------------|
| Features  | Non-Toxic                       |                   |             |
| Uses  | Industrial Applications         |                   |             |
|   | Medical/Healthcare Applications |                   |             |
|   | Projectiles                     |                   |             |
|   | Sporting Goods                  |                   |             |
|   | Weighting & Balancing           |                   |             |
| Forms   | Pellets                         |                   |             |
| Processing Method   | Injection Molding               |                   |             |
| Physical  | Nominal Value                   | Unit              | Test Method |
| Specific Gravity  | 2.99                            | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow  | 0.60 to 0.90                    | %                 | ASTM D955   |
| Mechanical  | Nominal Value                   | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                                      | 7240                            | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)                             | 68.3                            | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)                           | 1.7                             | %                 | ASTM D638   |
| Flexural Modulus  | 5720                            | MPa               | ASTM D790   |
| Impact  | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact (23°C, 6.35 mm, Injection Molded)             | 53                              | J/m               | ASTM D256A  |
| Thermal   | Nominal Value                   | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.35 mm) | 149                             | °C                | ASTM D648   |
| Injection   | Nominal Value                   | Unit              |             |
| Drying Temperature  | 79.4                            | °C                |             |
| Drying Time   | 4.0                             | hr                |             |
| Processing (Melt) Temp  | 260 to 288                      | °C                |             |
| Mold Temperature  | 82.2 to 149                     | °C                |             |
| NOTE  |                                 |                   |             |
| 1.  | Type I, 5.1 mm/min              |                   |             |
| 2.  | Type I, 5.1 mm/min              |                   |             |
| 3.  | Type I, 5.1 mm/min              |                   |             |

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