

# Amilan® U127GX07

Polyamide 6  
Toray Resin Company

Message:

Amilan® U127GX07 is a Polyamide 6 (Nylon 6) product filled with 35% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: impact resistant.

| General Information                                    |              |                                  |                   |                 |
|--------------------------------------------------------|--------------|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                                 |              | Glass Fiber,35% Filler by Weight |                   |                 |
| Features                                               |              | High Impact Resistance           |                   |                 |
| Part Marking Code                                      |              | >PA6-I-GF35<                     |                   |                 |
| Physical                                               | Dry          | Conditioned                      | Unit              | Test Method     |
| Density (23°C)                                         | 1.35         | --                               | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Across Flow <sup>1</sup> (3.00 mm) | 0.20 to 0.80 | --                               | %                 | Internal Method |
| Water Absorption                                       |              |                                  |                   | ISO 62          |
| 23°C, 24 hr                                            | 0.60         | --                               | %                 |                 |
| Saturation, 23°C                                       | 5.0          | --                               | %                 |                 |
| Hardness                                               | Dry          | Conditioned                      | Unit              | Test Method     |
| Rockwell Hardness (R-Scale, 23°C)                      | 115          | --                               |                   | ISO 2039-2      |
| Mechanical                                             | Dry          | Conditioned                      | Unit              | Test Method     |
| Tensile Stress (23°C)                                  | 150          | 100                              | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                           | 4.5          | 7.0                              | %                 | ISO 527-2       |
| Flexural Modulus (23°C)                                | 7900         | 4400                             | MPa               | ISO 178         |
| Flexural Stress (23°C)                                 | 210          | 120                              | MPa               | ISO 178         |
| Taber Abrasion Resistance (1000 Cycles)                | 13.0         | --                               | mg                | ISO 9352        |
| Impact                                                 | Dry          | Conditioned                      | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)                  | 30           | 40                               | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength (23°C)                | 120          | 160                              | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                                | Dry          | Conditioned                      | Unit              | Test Method     |
| Heat Deflection Temperature                            |              |                                  |                   |                 |
| 0.45 MPa, Unannealed                                   | 210          | --                               | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                                    | 195          | --                               | °C                | ISO 75-2/A      |
| Melting Temperature                                    | 225          | --                               | °C                | DSC             |
| CLTE - Flow                                            | 4.0E-5       | --                               | cm/cm/°C          | ISO 11359-2     |
| NOTE                                                   |              |                                  |                   |                 |
| 1.                                                     | 80x80x3      |                                  |                   |                 |

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