

# Amilan® HF3064G30

Polyamide 66  
Toray Resin Company

Message:

Amilan® HF3064G30 is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America.  
Characteristics include:  
Flame Rated  
Flame Retardant  
Good Toughness  
Halogen Free

| General Information                                |                                  |          |                 |
|----------------------------------------------------|----------------------------------|----------|-----------------|
| UL YellowCard                                      | E41797-100198659                 |          |                 |
| Filler / Reinforcement                             | Glass Fiber,30% Filler by Weight |          |                 |
| Additive                                           | Flame Retardant                  |          |                 |
| Features                                           | Flame Retardant                  |          |                 |
|                                                    | Good Toughness                   |          |                 |
|                                                    | Halogen Free                     |          |                 |
| Part Marking Code                                  | >PA66-GF30FR<                    |          |                 |
| Physical                                           | Nominal Value                    | Unit     | Test Method     |
| Density (23°C)                                     | 1.53                             | g/cm³    | ISO 1183        |
| Molding Shrinkage                                  |                                  |          | Internal Method |
| Across Flow : 3.00 mm <sup>1</sup>                 | 0.90 to 1.1                      | %        |                 |
| Flow : 3.00 mm <sup>2</sup>                        | 0.10 to 0.30                     | %        |                 |
| Water Absorption                                   |                                  |          | ISO 62          |
| 23°C, 24 hr                                        | 0.70                             | %        |                 |
| Saturation, 23°C                                   | 4.0                              | %        |                 |
| Mechanical                                         | Nominal Value                    | Unit     | Test Method     |
| Tensile Stress (23°C)                              | 154                              | MPa      | ISO 527-2       |
| Tensile Strain (Break, 23°C)                       | 2.5                              | %        | ISO 527-2       |
| Flexural Modulus (23°C)                            | 10400                            | MPa      | ISO 178         |
| Flexural Stress (23°C)                             | 234                              | MPa      | ISO 178         |
| Impact                                             | Nominal Value                    | Unit     | Test Method     |
| Charpy Notched Impact Strength (23°C)              | 11                               | kJ/m²    | ISO 179         |
| Thermal                                            | Nominal Value                    | Unit     | Test Method     |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 251                              | °C       | ISO 75-2/B      |
| Melting Temperature                                | 265                              | °C       | DSC             |
| CLTE - Flow                                        | 2.0E-5                           | cm/cm/°C | ISO 11359-2     |
| Electrical                                         | Nominal Value                    | Unit     | Test Method     |
| Volume Resistivity                                 | 1.0E+15                          | ohms·cm  | IEC 60093       |

| Flammability            | Nominal Value | Unit | Test Method |
|-------------------------|---------------|------|-------------|
| Flame Rating (0.794 mm) | V-0           |      | UL 94       |
| NOTE                    |               |      |             |
| 1.                      | 80x80x3       |      |             |
| 2.                      | 80x80x3mm     |      |             |

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