

# Amilan® CM3003G1000

Polyamide 66  
Toray Resin Company

Message:

Amilan® CM3003G1000 is a Polyamide 66 (Nylon 66) product. It is available in Asia Pacific, Europe, or North America.  
Characteristics include:  
Flame Rated  
Wear Resistant

| General Information                                |                          |                   |                 |
|----------------------------------------------------|--------------------------|-------------------|-----------------|
| Features                                           | Good Abrasion Resistance |                   |                 |
| Part Marking Code                                  | >PA66-XD<                |                   |                 |
| Physical                                           | Nominal Value            | Unit              | Test Method     |
| Density (23°C)                                     | 1.19                     | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                                  |                          |                   | Internal Method |
| Across Flow : 3.00 mm <sup>1</sup>                 | 1.2 to 2.0               | %                 |                 |
| Flow : 3.00 mm <sup>2</sup>                        | 0.50 to 1.2              | %                 |                 |
| Water Absorption                                   |                          |                   | ISO 62          |
| 23°C, 24 hr                                        | 1.1                      | %                 |                 |
| Saturation, 23°C                                   | 7.5                      | %                 |                 |
| Hardness                                           | Nominal Value            | Unit              | Test Method     |
| Rockwell Hardness (R-Scale, 23°C)                  | 119                      |                   | ISO 2039-2      |
| Mechanical                                         | Nominal Value            | Unit              | Test Method     |
| Tensile Stress (23°C)                              | 100                      | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                       | 2.5                      | %                 | ISO 527-2       |
| Flexural Modulus (23°C)                            | 3200                     | MPa               | ISO 178         |
| Flexural Stress (23°C)                             | 140                      | MPa               | ISO 178         |
| Taber Abrasion Resistance (1000 Cycles)            | 7.00                     | mg                | ISO 9352        |
| Coefficient of Friction - vs. Metal <sup>3</sup>   | 0.100 to 0.150           |                   | Suzuki Method   |
| Impact                                             | Nominal Value            | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)              | 4.0                      | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                            | Nominal Value            | Unit              | Test Method     |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 220                      | °C                | ISO 75-2/B      |
| Melting Temperature                                | 265                      | °C                | DSC             |
| CLTE - Flow                                        | 7.0E-5 to 8.0E-5         | cm/cm/°C          | ISO 11359-2     |
| Flammability                                       | Nominal Value            |                   | Test Method     |
| Flame Rating                                       | HB                       |                   | UL 94           |
| NOTE                                               |                          |                   |                 |
| 1.                                                 | 80x80x3                  |                   |                 |
| 2.                                                 | 80x80x3mm                |                   |                 |

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