

# Amilan® CM3001R

Polyamide 66  
Toray Resin Company

Message:

Amilan® CM3001R is a Polyamide 66 (Nylon 66) product filled with 40% mineral. It is available in Asia Pacific, Europe, or North America.  
Characteristics include:  
Flame Rated  
Warp Resistant

| General Information                |             |                              |                   |                 |
|------------------------------------|-------------|------------------------------|-------------------|-----------------|
| Filler / Reinforcement             |             | Mineral,40% Filler by Weight |                   |                 |
| Features                           |             | Low Warpage                  |                   |                 |
| Part Marking Code                  |             | >PA66-MD40<                  |                   |                 |
| Physical                           | Dry         | Conditioned                  | Unit              | Test Method     |
| Density (23°C)                     | 1.51        | --                           | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                  |             |                              |                   | Internal Method |
| Across Flow : 3.00 mm <sup>1</sup> | 1.0 to 1.4  | --                           | %                 |                 |
| Flow : 3.00 mm <sup>2</sup>        | 0.70 to 1.0 | --                           | %                 |                 |
| Water Absorption                   |             |                              |                   | ISO 62          |
| 23°C, 24 hr                        | 0.60        | --                           | %                 |                 |
| Saturation, 23°C                   | 5.1         | --                           | %                 |                 |
| Hardness                           | Dry         | Conditioned                  | Unit              | Test Method     |
| Rockwell Hardness                  |             |                              |                   | ISO 2039-2      |
| M-Scale, 23°C                      | 83          | --                           |                   |                 |
| R-Scale, 23°C                      | 120         | --                           |                   |                 |
| Mechanical                         | Dry         | Conditioned                  | Unit              | Test Method     |
| Tensile Stress                     |             |                              |                   | ISO 527-2       |
| -40°C                              | 120         | --                           | MPa               |                 |
| 23°C                               | 95.0        | 70.0                         | MPa               |                 |
| 80°C                               | 40.0        | --                           | MPa               |                 |
| Tensile Strain                     |             |                              |                   | ISO 527-2       |
| Break, -40°C                       | 3.0         | --                           | %                 |                 |
| Break, 23°C                        | 3.5         | 5.0                          | %                 |                 |
| Break, 80°C                        | 5.0         | --                           | %                 |                 |
| Flexural Modulus                   |             |                              |                   | ISO 178         |
| -40°C                              | 6200        | --                           | MPa               |                 |
| 23°C                               | 5800        | 3000                         | MPa               |                 |
| 80°C                               | 2000        | --                           | MPa               |                 |
| Flexural Stress                    |             |                              |                   | ISO 178         |
| -40°C                              | 185         | --                           | MPa               |                 |
| 23°C                               | 155         | 100                          | MPa               |                 |

|                                       |           |             |                   |             |
|---------------------------------------|-----------|-------------|-------------------|-------------|
| 80°C                                  | 65.0      | --          | MPa               |             |
| Impact                                | Dry       | Conditioned | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C) | 5.5       | --          | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                               | Dry       | Conditioned | Unit              | Test Method |
| Heat Deflection Temperature           |           |             |                   |             |
| 0.45 MPa, Unannealed                  | 243       | --          | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                   | 185       | --          | °C                | ISO 75-2/A  |
| Melting Temperature                   | 265       | --          | °C                | DSC         |
| Flammability                          | Dry       | Conditioned |                   | Test Method |
| Flame Rating                          | HB        | --          |                   | UL 94       |
| NOTE                                  |           |             |                   |             |
| 1.                                    | 80x80x3   |             |                   |             |
| 2.                                    | 80x80x3mm |             |                   |             |

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