

# Ravamid® BGF50 NC

Polyamide 6

Ravago Group

## Message:

Natural 50% glass fibre reinforced, general purpose

All the products are also available Heat Stabilized (H) and UV Stabilized (UV)

| General Information                                     |                                  |                   |                              |
|---------------------------------------------------------|----------------------------------|-------------------|------------------------------|
| Filler / Reinforcement                                  | Glass Fiber,50% Filler by Weight |                   |                              |
| Recycled Content                                        | Yes                              |                   |                              |
| Features                                                | General Purpose                  |                   |                              |
| Uses                                                    | General Purpose                  |                   |                              |
| Appearance                                              | Natural Color                    |                   |                              |
| Physical                                                | Nominal Value                    | Unit              | Test Method                  |
| Specific Gravity                                        | 1.56                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183          |
| Molding Shrinkage - Flow                                | 0.15 to 0.85                     | %                 | ASTM D955                    |
| Humidity                                                | < 0.10                           | %                 | ISO 960                      |
| Mechanical                                              | Nominal Value                    | Unit              | Test Method                  |
| Tensile Modulus                                         | 11800                            | MPa               | ASTM D882, ISO 527-2         |
| Tensile Strength (Break)                                | 195                              | MPa               | ASTM D638, ISO 527-2         |
| Tensile Elongation (Break)                              | 2.0                              | %                 | ASTM D638, ISO 527-2         |
| Flexural Modulus                                        | 10500                            | MPa               | ASTM D790, ISO 178           |
| Impact                                                  | Nominal Value                    | Unit              | Test Method                  |
| Charpy Notched Impact Strength (23°C)                   | 12                               | kJ/m <sup>2</sup> | ISO 179/1eA                  |
| Charpy Unnotched Impact Strength (23°C)                 | 75                               | kJ/m <sup>2</sup> | ISO 179/1eU                  |
| Notched Izod Impact (Area) (23°C)                       | 12.0                             | kJ/m <sup>2</sup> | ASTM D256                    |
| Notched Izod Impact Strength (23°C)                     | 12                               | kJ/m <sup>2</sup> | ISO 180/1A                   |
| Thermal                                                 | Nominal Value                    | Unit              | Test Method                  |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 220                              | °C                | ASTM D648, ISO 75-2/A        |
| Vicat Softening Temperature                             | 230                              | °C                | ISO 306/B50, ASTM D1525<br>1 |
| Flammability                                            | Nominal Value                    | Unit              | Test Method                  |
| Burning Rate (3.20 mm)                                  | < 100                            | mm/min            | FMVSS 302                    |
| Flame Rating                                            |                                  |                   | UL 94                        |
| 1.60 mm                                                 | HB                               |                   |                              |
| 3.20 mm                                                 | HB                               |                   |                              |
| Glow Wire Flammability Index (2.00 mm)                  | 650                              | °C                | IEC 60695-2-12               |
| NOTE                                                    |                                  |                   |                              |

1. Rate A (50°C/h), Loading 2 (50 N)

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