

# Ravamid® B GF50 BK

Polyamide 6  
Industrial Quality Compound

## Description:

Polyamide 6 black containing recycled material, 50% glass fiber reinforced, good mechanical properties, also available Heat Stabilized (H) and UV Stabilized (UV)

## General

|                                |          |      |                   |
|--------------------------------|----------|------|-------------------|
| Density                        | ISO 1183 | 1.56 | g/cm <sup>3</sup> |
| Mold shrinkage (Parallel)      |          | 0.4  | %                 |
| Mold shrinkage (Perpendicular) |          | 0.2  | %                 |

## Thermal

|                                   |         |     |    |
|-----------------------------------|---------|-----|----|
| HDT/A (1,82MPa)                   | ISO 75A | 220 | °C |
| Vicat softening point (B50 (50N)) | ISO 306 | 230 | °C |

## Mechanical

|  |         |       |                   |
|--|---------|-------|-------------------|
| Izod notched impact strength (23°C)      | ISO 180 | 10.5  | kJ/m <sup>2</sup> |
| Charpy notched impact strength (23 °C)   | ISO 179 | 9     | kJ/m <sup>2</sup> |
| Charpy unnotched impact strength (23 °C) | ISO 179 | 55    | kJ/m <sup>2</sup> |
| Tensile stress at break                  | ISO 527 | 140   | MPa               |
| Elongation at break                      | ISO 527 | 2     | %                 |
| Tensile modulus                          | ISO 527 | 10100 | MPa               |
| Flex modulus                             | ISO 178 | 8000  | MPa               |
| Flexural strength (+23°C)                | ISO 178 | 180   | MPa               |

## Flammability

|                                       |                |      |        |
|---------------------------------------|----------------|------|--------|
| Flammability (3,2mm)                  | UL94           | HB   |        |
| Flammability (1,6mm)                  | UL94           | HB   |        |
| Burning rate (FMVSS 302)              | ISO 3795       | <100 | mm/min |
| Glow wire flammability index (2,0 mm) | IEC 60695-2-12 | 650  | °C     |

## Various

|          |         |       |   |
|----------|---------|-------|---|
| Humidity | ISO 960 | ≤0.10 | % |
|----------|---------|-------|---|

The data and information contained herein are typical average values, based on our current level of knowledge and experience, and do not constitute sales specifications. No liability, warranty or guarantee of product performance is created by this document. Ravago industrial quality compounds are totally or partially produced with non-prime quality ingredients. Even though the selection of the raw materials, the production and the quality control is being done following to the common best practices, it is the buyer's responsibility to inspect and test our products in order to determine the suitability for the buyer's application.

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