

# RILSAN® BMNO MED

## TECHNICAL DATA SHEET

Rilsan® BMNO MED resin is a polyamide 11 produced from a renewable source. This natural grade dedicated to injection offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices.

### MAIN CHARACTERISTICS

| PROPERTIES                            | DRY / COND  | UNIT              | TEST STANDARD   |
|---------------------------------------|-------------|-------------------|-----------------|
| Molding Shrinkage, parallel           | 0.4 / *     | %                 | ISO 294-4, 2577 |
| Molding Shrinkage, normal             | 0.8 / *     | %                 | ISO 294-4, 2577 |
| Tensile Modulus                       | - / 1280    | MPa               | ISO 527-1/-2    |
| Yield stress                          | - / 41      | MPa               | ISO 527-1/-2    |
| Yield strain                          | - / 5       | %                 | ISO 527-1/-2    |
| Nominal Strain at Break               | - / >50     | %                 | ISO 527-1/-2    |
| Shore D Hardness, 15s                 | 68 / *      | -                 | ISO 7619-1      |
| Charpy Impact Strength, +23°C         | - / N       | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy Impact Strength, -30°C         | - / N       | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy Notched Impact Strength, +23°C | - / 9       | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy Notched Impact Strength, -30°C | - / 4       | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Melting Temperature, 10°C/min         | 189 / *     | °C                | ISO 11357-1/-3  |
| Density                               | 1030 / 1030 | kg/m <sup>3</sup> | ISO 1183        |
| Injection Molding, melt temperature   | 260         | °C                | ISO 294         |
| Injection Molding, mold temperature   | 50          | °C                | ISO 10724       |
| Injection Molding, pressure at hold   | 16          | MPa               | ISO 294         |

### Processing conditions:

- Typical melt temperature (Min / Recommended / Max): **240 °C / 270 °C / 290 °C.**
- Mold temperature: **25 - 60 °C**
- Drying time and temperature *(only necessary for bags opened for more than two hours)*: **4-6 hours at 80-90 °C.**