

# RILSAN® TESNO F

## Rilsan® TESNO F resin - Rilsan® POLYAMIDE 1010 (PA1010)

Rilsan® TESNO F resin is an undried polyamide 1010 neat resin produced from a renewable source. This natural grade is a designed for compounding.

Percentage of renewable carbon according to ASTM D 6866: >99%.

| PROPERTIES                               | DRY /<br>COND | UNIT     | TEST<br>STANDARD |
|------------------------------------------|---------------|----------|------------------|
| MECHANICAL PROPERTIES                    |               |          |                  |
| Tensile Modulus                          | 1600 / -      | MPa      | ISO 527-1/-2     |
|                                          | 232000 / -    | psi      |                  |
| Charpy Impact Strength, +23°C            | No Break / -  | kJ/m²    | ISO 179/1eU      |
| Charpy Impact Strength, -30°C            | No Break / -  | kJ/m²    | ISO 179/1eU      |
| Charpy Notched Impact Strength, +23°C    | 16 / -        | kJ/m²    | ISO 179/1eA      |
|                                          | 7.61 / -      | ftlb/in² |                  |
| Charpy Notched Impact Strength, -30°C    | 11 / -        | kJ/m²    | ISO 179/1eA      |
|                                          | 5.23 / -      | ftlb/in² |                  |
| THERMAL PROPERTIES                       |               |          |                  |
| Melting Temperature, 10°C/min            | 202 / *       | °C       | ISO 11357-1/-3   |
| Temp. of Deflection Under Load, 1.80 MPa | 50 / *        | °C       | ISO 75-1/-2      |
|                                          | 122 / *       | °F       |                  |
| OTHER PROPERTIES                         |               |          |                  |
| Density                                  | 1040 / -      | kg/m³    | ISO 1183         |
|                                          | 1.04 / -      | g/cm³    |                  |
| %Bio-Based                               | 99            | -        | ASTM D6866       |

|                                                                                  |  |
|----------------------------------------------------------------------------------|--|
| <b>SPECIAL CHARACTERISTICS</b>                                                   |  |
| Bio-Based                                                                        |  |
| <b>REGIONAL AVAILABILITY</b>                                                     |  |
| North America, Europe, Asia Pacific, South and Central America, Near East/Africa |  |
|                                                                                  |  |