

# RILSAN® HT CMNO

## PA11/10T,,M,C16-020

Rilsan® HT CMNO is a polyphthalamide produced from a renewable source.

Percentage of renewable carbon according to ASTM D 6866: >65 %.

| PROPERTIES                             | DRY /<br>COND | UNIT      | TEST<br>STANDARD   |
|----------------------------------------|---------------|-----------|--------------------|
| RHEOLOGICAL PROPERTIES                 |               |           |                    |
| Melt Volume-Flow Rate                  | 10 / *        | cm³/10min | ISO 1133           |
| Temperature                            | 255 / *       | °C        | -                  |
|                                        | 491 / *       | °F        |                    |
| Load                                   | 2.16 / *      | kg        | -                  |
|                                        | 4.76 / *      | lb        |                    |
| Molding Shrinkage, parallel            | 1.3 / *       | %         | ISO 294-4,<br>2577 |
| Molding Shrinkage, normal              | 1.2 / *       | %         | ISO 294-4,<br>2577 |
| MECHANICAL PROPERTIES                  |               |           |                    |
| Tensile Modulus                        | - / 2400      | MPa       | ISO 527-1/-2       |
|                                        | - / 348000    | psi       |                    |
| Yield stress                           | 348000 / 64   | MPa       | ISO 527-1/-2       |
|                                        | - / 9280      | psi       |                    |
| Yield strain                           | - / 4         | %         | ISO 527-1/-2       |
| Shore D Hardness                       | 81 / *        | -         | ISO 868            |
| Charpy Impact Strength, +23°C          | - / 38        | kJ/m²     | ISO 179/1eU        |
|                                        | - / 18.1      | ftlb/in²  |                    |
| Charpy Impact Strength, -30°C          | - / 59        | kJ/m²     | ISO 179/1eU        |
|                                        | - / 28.1      | ftlb/in²  |                    |
| Charpy Notched Impact Strength, +23°C  | - / 6         | kJ/m²     | ISO 179/1eA        |
|                                        | - / 2.85      | ftlb/in²  |                    |
| Charpy Notched Impact Strength, -30°C  | - / 8         | kJ/m²     | ISO 179/1eA        |
|                                        | - / 3.81      | ftlb/in²  |                    |
| THERMAL PROPERTIES                     |               |           |                    |
| Melting Temperature, 10°C/min          | 255 / *       | °C        | ISO 11357-1/-3     |
| Glass Transition Temperature, 10°C/min | 82 / *        | °C        | ISO 11357-1/-2     |
|                                        | 180 / *       | °F        |                    |
| OTHER PROPERTIES                       |               |           |                    |

# RILSAN® HT CMNO

|            |          |       |            |
|------------|----------|-------|------------|
| Density    | 1100 / - | kg/m³ | ISO 1183   |
|            | 1.1 / -  | g/cm³ |            |
| %Bio-Based | 65       | -     | ASTM D6866 |

## MAIN APPLICATIONS:

- Glass fiber compound for electronic
- automotive & transportation applications etc
- Filament

## PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

## SHELF LIFE:

Two years from the delivery. For any use above this limit, please refer to our technical services.

### Processing conditions :

- Typical melt temperature (Min / Recommended / Max) : 270°C / 280°C / 300°C.
- Typical mold temperature : 80 - 110°C.
- Drying time and temperature (only for bags opened for more than two hours) : 4 - 8 hours at 100 - 110°C.

### Processing conditions :

- Typical melt temperature (Min / Recommended / Max) : 270°C / 280°C / 290°C.
- Drying time and temperature (only for bags opened for more than two hours) : 8 - 12 hours at 70 °C.

|                                                                                  |  |
|----------------------------------------------------------------------------------|--|
| <b>PROCESSING</b>                                                                |  |
| Injection Molding, Profile Extrusion, Other Extrusion                            |  |
| <b>DELIVERY FORM</b>                                                             |  |
| Pellets                                                                          |  |
| <b>SPECIAL CHARACTERISTICS</b>                                                   |  |
| Bio-Based                                                                        |  |
| <b>REGIONAL AVAILABILITY</b>                                                     |  |
| North America, Europe, Asia Pacific, South and Central America, Near East/Africa |  |