

# RILSAN® HT CSR13

PA11/10T,CF13,MHL, C16-080

**Rilsan® HT CSR 13** is a flexible polyphthalamide produced from a renewable source. This grade is fiber reinforced formulated for high-temperature applications requiring static charge dissipation and designed for injection molding.

The percentage of **renewable carbon is 54%** (calculated value, based on ASTM D6866).

## MAIN CHARACTERISTICS

| PROPERTIES                               | DRY / COND | UNIT      | TEST STANDARD  |
|------------------------------------------|------------|-----------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>            |            |           |                |
| Melt Volume-Flow Rate                    | 12 / *     | cm³/10min | ISO 1133       |
| Temperature                              | 275 / *    | °C        | -              |
| Load                                     | 2.16 / *   | kg        | -              |
| <b>MECHANICAL PROPERTIES</b>             |            |           |                |
| Tensile Modulus                          | - / 7600   | MPa       | ISO 527-1/-2   |
| Stress at Break                          | - / 151    | MPa       | ISO 527-1/-2   |
| Strain at Break                          | - / 2      | %         | ISO 527-1/-2   |
| Charpy Impact Strength, +23°C            | - / 40     | kJ/m²     | ISO 179/1eU    |
| Charpy Impact Strength, -30°C            | - / 32     | kJ/m²     | ISO 179/1eU    |
| Charpy Notched Impact Strength, +23°C    | - / 5      | kJ/m²     | ISO 179/1eA    |
| Charpy Notched Impact Strength, -30°C    | - / 4      | kJ/m²     | ISO 179/1eA    |
| <b>THERMAL PROPERTIES</b>                |            |           |                |
| Melting Temperature, 10°C/min            | 255 / *    | °C        | ISO 11357-1/-3 |
| Temp. of Deflection Under Load, 1.80 MPa | 195 / *    | °C        | ISO 75-1/-2    |
| Temp. of Deflection Under Load, 0.45 MPa | 235 / *    | °C        | ISO 75-1/-2    |
| <b>OTHER PROPERTIES</b>                  |            |           |                |
| Density                                  | 1150 / -   | kg/m³     | ISO 1183       |
| %Bio-Based                               | 54         | -         | ASTM D6866     |

## MAIN APPLICATIONS:

- Conductive automotive & transportation quick connector

## 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 / Maxi) : 270°C / 280°C / 320°C.
- Typical mold temperature : 80 - 110°C.
- Drying time and temperature (only for bags opened for more than two hours) : 4 - 8 hours / 100 - 110°C.

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HT  
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## PROCESSING

Injection Molding

## DELIVERY FORM

Pellets

## SPECIAL CHARACTERISTICS

Bio-Based, Conductive

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