

# RILSAN®

## HT CZM 30 BLACK TLD

PA11/10T,GF30,MHL,C16-090

Rilsan® HT CZM 30 BLACK TLD is a polyphthalamide produced from a renewable source. This grade is glass fiber-reinforced, formulated and designed for injection molding for high-temperature applications.

According to ASTM D6866, the biobased carbon content is measured at 68%.

| 特性                    | 乾燥/調湿      | 単位        | テスト基準           |
|-----------------------|------------|-----------|-----------------|
| レオロジー特性               |            |           |                 |
| メルトボリュームレイト           | 15 / *     | cm³/10min | ISO 1133        |
| 温度                    | 300 / *    | °C        | -               |
|                       | 572 / *    | °F        |                 |
| 荷重                    | 2.16 / *   | kg        | -               |
|                       | 4.76 / *   | lb        |                 |
| 成形収縮率, 平行             | 0.3 / *    | %         | ISO 294-4, 2577 |
| 成形収縮率, 直角             | 1.0 / *    | %         | ISO 294-4, 2577 |
| 機械的特性                 |            |           |                 |
| 引張弾性率                 | 8700 / -   | MPa       | ISO 527-1/-2    |
|                       | 1.26E6 / - | psi       |                 |
| 破壊応力                  | 151 / -    | MPa       | ISO 527-1/-2    |
|                       | 21900 / -  | psi       |                 |
| 破壊ひずみ                 | 2.6 / -    | %         | ISO 527-1/-2    |
| シャルピー衝撃強さ, +23°C      | 57 / -     | kJ/m²     | ISO 179/1eU     |
|                       | 27.1 / -   | ftlb/in²  |                 |
| シャルピー衝撃強さ, -30°C      | 54 / -     | kJ/m²     | ISO 179/1eU     |
|                       | 25.7 / -   | ftlb/in²  |                 |
| ノッチ付きシャルピー衝撃強さ, +23°C | 9.1 / -    | kJ/m²     | ISO 179/1eA     |
|                       | 4.33 / -   | ftlb/in²  |                 |
| ノッチ付きシャルピー衝撃強さ, -30°C | 7.4 / -    | kJ/m²     | ISO 179/1eA     |
|                       | 3.52 / -   | ftlb/in²  |                 |
| 熱的特性                  |            |           |                 |
| 溶融温度, 10°C/min        | 255 / *    | °C        | ISO 11357-1/-3  |
| 荷重たわみ温度, 1.80 MPa     | 220 / *    | °C        | ISO 75-1/-2     |
|                       | 428 / *    | °F        |                 |
| 荷重たわみ温度, 0.45 MPa     | 240 / *    | °C        | ISO 75-1/-2     |
|                       | 464 / *    | °F        |                 |

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Source: automatically generated TDS from Material Database on 20-02-2024

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### その他の特性.

|                                   |             |       |            |
|-----------------------------------|-------------|-------|------------|
| %Bio-Based                        | 68          | -     | ASTM D6866 |
| 吸水率, 23°C, immersion, equilibrium | 1.13 / *    | %     | ISO 62     |
| 吸湿率                               | 0.22 / *    | %     | ISO 62     |
| 密度                                | 1300 / 1300 | kg/m³ | ISO 1183   |
|                                   | 1.3 / 1.3   | g/cm³ |            |

### Main applications:

- Automotive & transportation quick connector for flexible fuels and powertrain applications
- High-temperature injection molding

### Packaging:

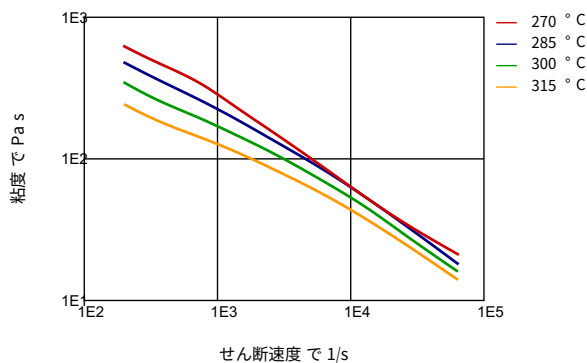
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

### Shelf Life:

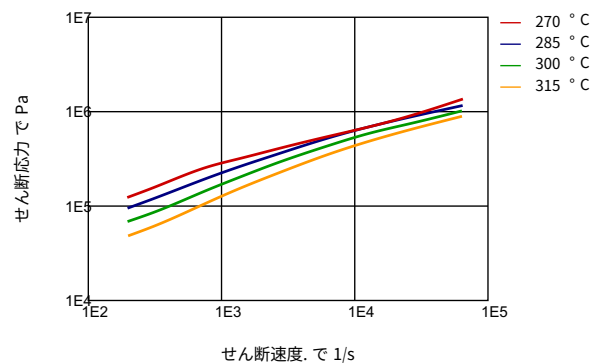
Two years from the delivery. For any use above this limit, please refer to our technical services.

## 機能

### 粘度せん断速度.

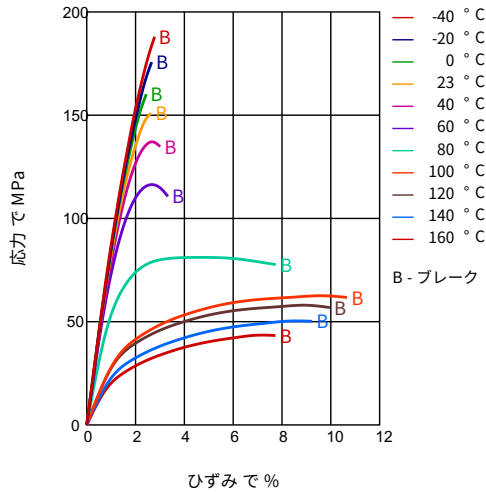


### せん断応力-せん断速度.

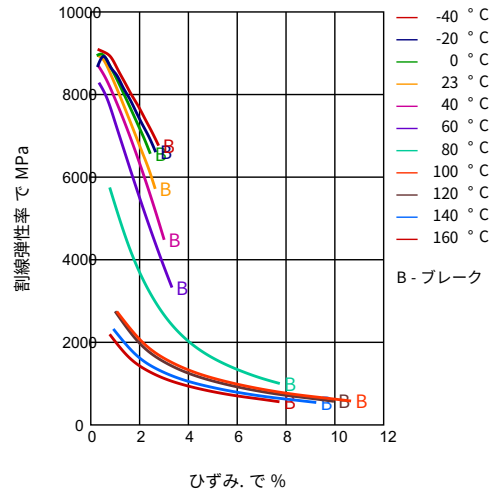


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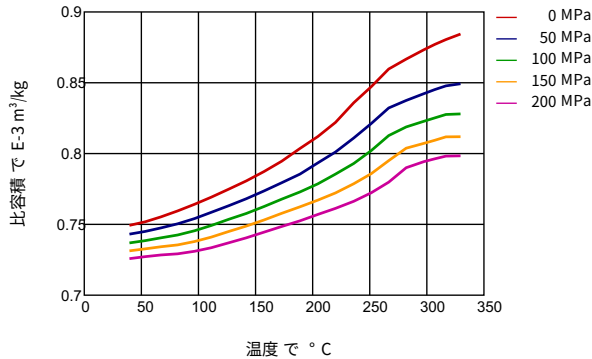
## 応力-ひずみ.



## 割線弾性率-ひずみ.



## PVT



### Injection molding process conditions :

- Typical melt temperature (Min / Recommended / Maxi) : 270°C / 280°C / 320°C.
- Typical mold temperature : 90 - 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 CZM 30 BLACK TLD

|                                                            |                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 成形加工法<br>射出成形                                              | Headquarters:<br>Arkema France<br>420 rue d'Estienne d'Orves 92705<br>Colombes Cedex France<br>T +33 (0)1 49 00 80 80<br>hpp.arkema.com<br><br>Arkema Inc. – High Performance<br>Polymers<br>900 First Avenue<br>King of Prussia, PA 19406<br>Tel.: +1 610 205 7000<br>hpp.arkema.com |
| 納入形状<br>ペレット                                               |                                                                                                                                                                                                                                                                                       |
| 添加剤<br>離型剤                                                 |                                                                                                                                                                                                                                                                                       |
| 特殊な特性<br>バイオベース, 熱安定化, 光安定化                                |                                                                                                                                                                                                                                                                                       |
| 領域別の利用可能性<br>北アメリカ, ヨーロッパ, アジア/太平洋地域,<br>南・中央アメリカ, 近東/アフリカ |                                                                                                                                                                                                                                                                                       |

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