

# RILSAN® BESNO TL

PA11,EHL,22-010

Rilsan® BESNO TL resin is a polyamide 11 produced from a renewable source. This natural grade is designed for extrusion.

| 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            | 1 / *      | cm³/10min | ISO 1133        |
| 温度                     | 235 / *    | °C        | -               |
|                        | 455 / *    | °F        | -               |
| 荷重                     | 2.16 / *   | kg        | -               |
|                        | 4.76 / *   | lb        | -               |
| 機械的特性                  |            |           |                 |
| 引張弾性率                  | - / 1280   | MPa       | ISO 527-1/-2    |
|                        | - / 186000 | psi       |                 |
| 降伏応力                   | - / 38     | MPa       | ISO 527-1/-2    |
|                        | - / 5510   | psi       |                 |
| 降伏ひずみ                  | - / 5      | %         | ISO 527-1/-2    |
| 破壊呼びひずみ                | - / >50    | %         | ISO 527-1/-2    |
| ショア硬さD, 15 s           | 72 / *     | -         | ISO 868         |
| シャルピー衝撃強さ, +23°C       | - / 未破壊    | kJ/m²     | ISO 179/1eU     |
| シャルピー衝撃強さ, -30°C       | - / 未破壊    | kJ/m²     | ISO 179/1eU     |
| ノッチ付きシャルピー衝撃強さ, +23°C  | - / 11     | kJ/m²     | ISO 179/1eA     |
|                        | - / 5.23   | ftlb/in²  |                 |
| ノッチ付きシャルピー衝撃強さ, -30°C  | - / 12     | kJ/m²     | ISO 179/1eA     |
|                        | - / 5.71   | ftlb/in²  |                 |
| パンクチャー衝撃 - 最大応力, -30°C | - / 6000   | N         | ISO 6603-2      |
| パンクチャー衝撃エネルギー, -30 °C  | - / 70     | J         | ISO 6603-2      |
| 熱的特性                   |            |           |                 |
| 溶融温度, 10°C/min         | 186 / *    | °C        | ISO 11357-1/-3  |
| 荷重たわみ温度, 1.80 MPa      | 50 / *     | °C        | ISO 75-1/-2     |
|                        | 122 / *    | °F        |                 |
| 荷重たわみ温度, 0.45 MPa      | 145 / *    | °C        | ISO 75-1/-2     |
|                        | 293 / *    | °F        |                 |
| ピカット軟化温度, 50°C/h 50N   | 160 / *    | °C        | ISO 306         |
|                        | 320 / *    | °F        |                 |
| 線膨張係数, 平行              | 85 / *     | E-6/K     | ISO 11359-1/-2  |
| 1.5mm厚さでの燃焼性           | HB / *     | class     | IEC 60695-11-10 |

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

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|                                   |             |           |               |
|-----------------------------------|-------------|-----------|---------------|
| 試験片の厚さ                            | 1.6 / *     | mm        | -             |
|                                   | 0.0630 / *  | in        |               |
| Yellow Card 可用                    | はい / *      | -         | -             |
| 電気的特性.                            |             |           |               |
| 比誘電率, 100Hz                       | 3 / -       | -         | IEC 60250     |
| 比誘電率, 1MHz                        | 3 / -       | -         | IEC 60250     |
| 誘電正接, 100Hz                       | 308 / -     | E-4       | IEC 60250     |
| 誘電正接, 1MHz                        | 183 / -     | E-4       | IEC 60250     |
| 体積抵抗率                             | - / 1E12    | Ohm*<br>m | IEC 62631-3-1 |
| 表面抵抗率                             | * / 1E14    | Ohm       | IEC 62631-3-2 |
| 耐電圧                               | - / 30      | kV/m      | IEC 60243-1   |
|                                   | - / 762     | kV/in     |               |
| その他の特性.                           |             |           |               |
| 吸水率, 23°C, immersion, equilibrium | 1.9 / *     | %         | ISO 62        |
| 密度                                | 1020 / 1020 | kg/m³     | ISO 1183      |
|                                   | 1.02 / 1.02 | g/cm³     |               |

## Main applications:

- Fluid transportation

## Packaging:

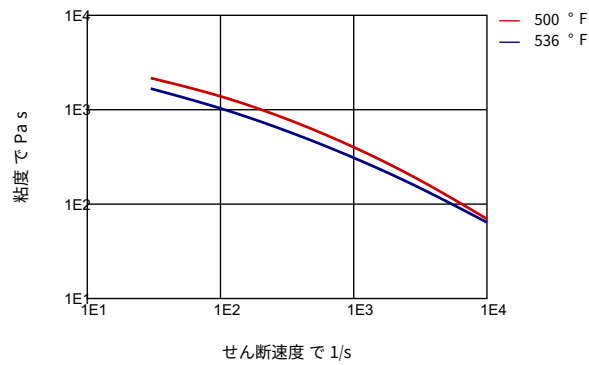
This grade is delivered dried in sealed packaging (25 kg bags, 44 lb bags, 1000 lb rigid containers) ready to be processed.

## Shelf Life:

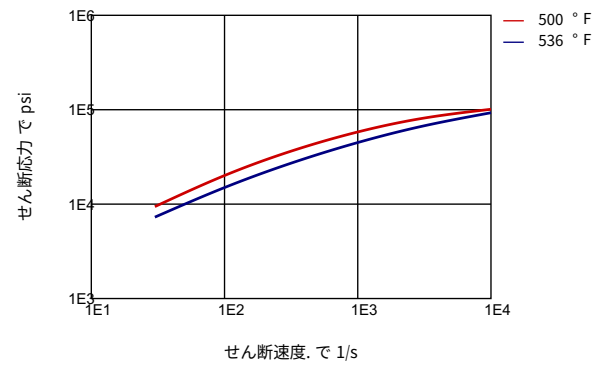
Two years from the delivery. For any use above this limit, please refer to our technical services.

機能

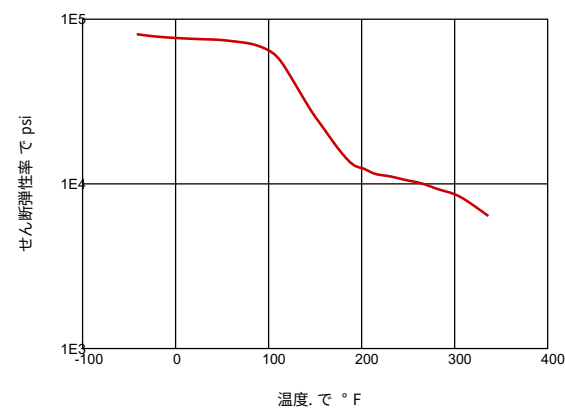
粘度せん断速度.



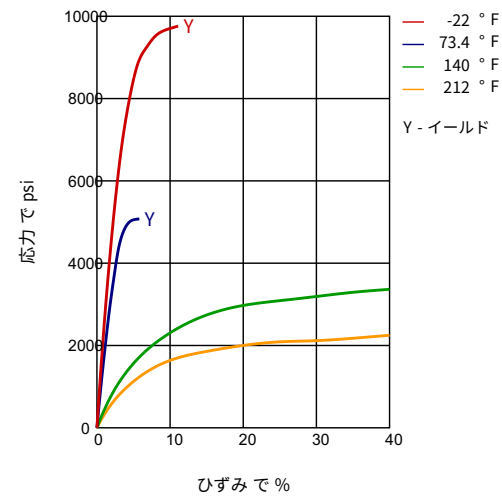
せん断応力-せん断速度.



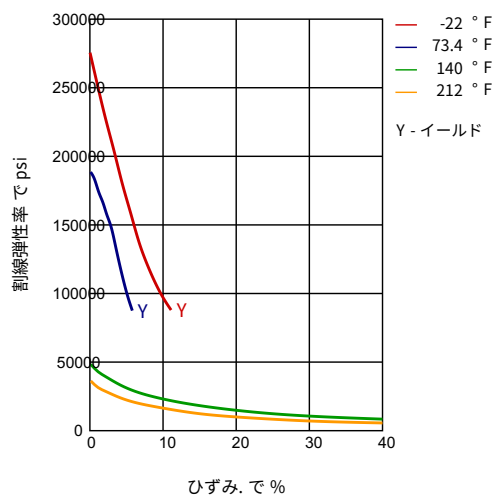
せん断弾性率-温度.



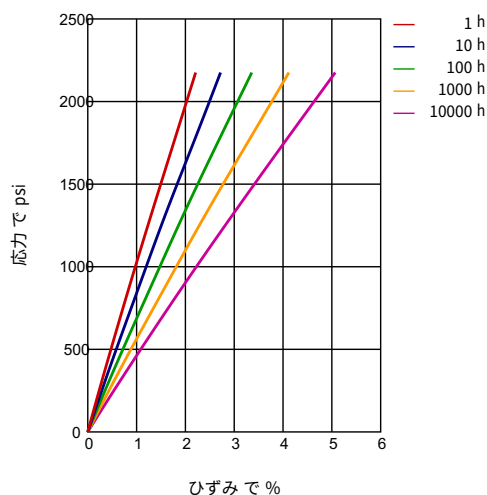
応力-ひずみ.



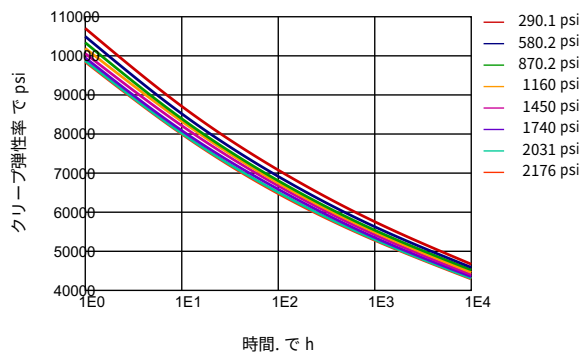
## 割線弾性率—ひずみ.



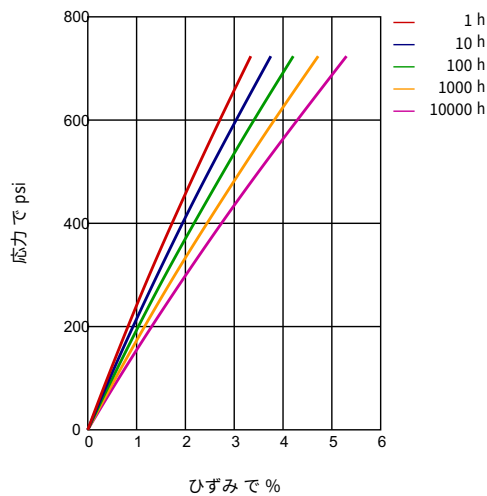
## 応力-ひずみ (等時的) 73°F



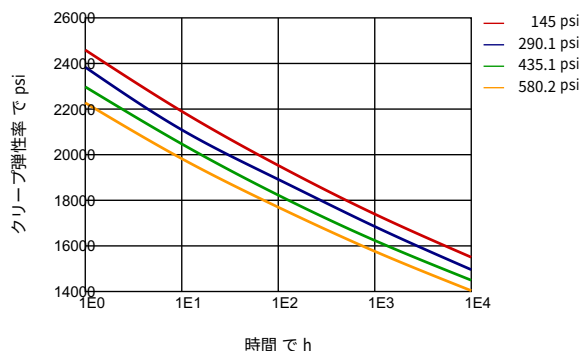
## クリープ弾性率—時間. 73°F



## 応力-ひずみ (等時的) 176°F



## クリープ弾性率—時間. 176°F



### Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 280°C.

- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 80-90°C.

|                                                                   |                                                                                                                                         |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>成形加工法</b><br>フィルム押出成形, 異形押出成形, シート押出成形,<br>その他の押出成形            | 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 |
| <b>納入形状</b><br>ペレット                                               |                                                                                                                                         |
| <b>添加剤</b><br>滑剤                                                  | 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  |
| <b>特殊な特性</b><br>バイオベース, 熱安定化, 光安定化                                |                                                                                                                                         |
| <b>領域別の利用可能性</b><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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