

# PEBAX<sup>®</sup> RNEW<sup>®</sup> 80R53 SP 02

Polyether block Pebax® Rnew ® 80R53 SP 02 resin is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources. This SP grade has been developed to be heat and UV resistant.

According to ASTM D6866, the biobased carbon content is measured at 92%.

| 特性                                | 乾燥/調湿       | 単位                   | テスト基準          |
|-----------------------------------|-------------|----------------------|----------------|
| 機械的特性                             |             |                      |                |
| 引張弾性率                             | - / 944     | MPa                  | ISO 527-1/-2   |
|                                   | - / 137000  | psi                  |                |
| 降伏応力                              | - / 33      | MPa                  | ISO 527-1/-2   |
|                                   | - / 4790    | psi                  |                |
| 降伏ひずみ                             | - / 24      | %                    | ISO 527-1/-2   |
| 破壊呼びひずみ                           | - / >50     | %                    | ISO 527-1/-2   |
| ショア硬さD, 15 s                      | 67 / *      | -                    | ISO 868        |
| シャルピー衝撃強さ, +23°C                  | - / 未破壊     | kJ/m <sup>2</sup>    | ISO 179/1eU    |
| シャルピー衝撃強さ, -30°C                  | - / 未破壊     | kJ/m <sup>2</sup>    | ISO 179/1eU    |
| ノッチ付きシャルピー衝撃強さ, +23°C             | - / 43      | kJ/m <sup>2</sup>    | ISO 179/1eA    |
|                                   | - / 20.5    | ftlb/in <sup>2</sup> |                |
| ノッチ付きシャルピー衝撃強さ, -30°C             | - / 16      | kJ/m <sup>2</sup>    | ISO 179/1eA    |
|                                   | - / 7.61    | ftlb/in <sup>2</sup> |                |
| 熱的特性                              |             |                      |                |
| 熔融温度, 10°C/min                    | 188 / *     | °C                   | ISO 11357-1/-3 |
| その他の特性.                           |             |                      |                |
| %Bio-Based                        | 92          | -                    | ASTM D6866     |
| 吸水率, 23°C, immersion, equilibrium | 0.7 / *     | %                    | ISO 62         |
| 吸湿率                               | 0.8 / *     | %                    | ISO 62         |
| 密度                                | 1020 / 1020 | kg/m <sup>3</sup>    | ISO 1183       |
|                                   | 1.02 / 1.02 | g/cm <sup>3</sup>    |                |

Main applications:

- Ski shoes
- Athletic foot wear components

Packaging:

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

Shelf Life:

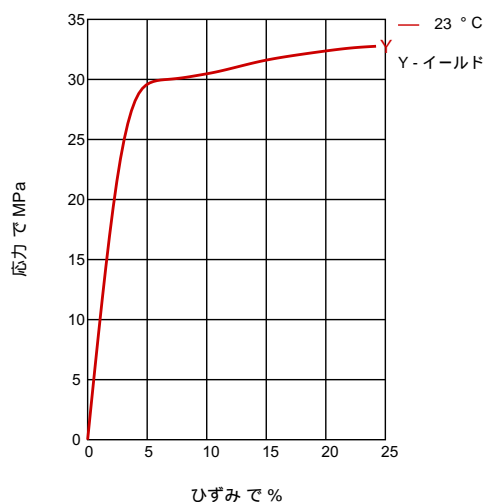
Two years from the delivery. For any use above this limit, please refer to our technical services.

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

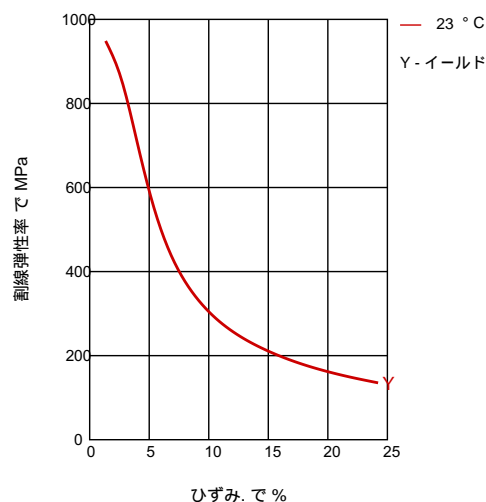
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## 機能

### 応力-ひずみ.



### 割線弾性率-ひずみ.



## Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 260°C / 290°C.
- Typical mold temperature : 25 – 60°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 5-7 hours at 70-80°C.

## Processing conditions:

- Typical melt temperature (Min / Recommended / Max): 230°C / 260°C / 290°C.
- Drying time and temperature (only necessary for bags opened for more than two hours): 5-7 hours at 70-80°C.

### 成形加工法

射出成形, その他の押出成形

### 納入形状

ペレット

### 特殊な特性

バイオベース, 熱安定化, 光安定化

### 領域別の利用可能性

北アメリカ, ヨーロッパ, アジア/太平洋地域,  
南・中央アメリカ, 近東/アフリカ

### Headquarters:

Arkema France  
420 rue d'Estienne d'Orves 92705  
Colombes Cedex France  
T +33 (0)1 49 00 80 80  
hpp.arkema.com

### Arkema Inc. – High Performance Polymers

900 First Avenue  
King of Prussia, PA 19406  
Tel.: +1 610 205 7000  
hpp.arkema.com

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