

## TECHNICAL DATA SHEET

# PEBAX® RNEW® 1100

## POLYETHER BLOCK AMIDE PELLET

PEBAX® Rnew 1100 resin offers an excellent combination of high impact resistance, stiffness and lightness. In addition to high energy return, the main future of Pebax® materials, this grade will bring high performance to a wide range of sport applications: winter sports, team sports. Pebax® Rnew 1100 resin is produced from a renewable source.

### DESIGNATION

PEBA

### MAIN APPLICATIONS

- Footwear - Outsole/Components
- Industry - Distribution

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Film Extrusion
- Injection Molding
- Tube Extrusion

## RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Shrinkage, Parallel (t+24h)	0.3 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.3 %	ISO 294-4

## MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Nominal strain at break, 23°C (73°F), 50 mm/min	- / 245 %	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 5 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 39 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 1100 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 80 kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 30 kJ/m2	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1090 MPa	ISO 178
Stress at break, 23°C (73°F), 50 mm/min	- / 42 MPa	ISO 527-1/-2

\*DRY: Dry As Molded (DAM) if pellet / Dry if powder.  
COND: Conditionned.

## THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	187 °C	ISO 11357-1/-3

# PEBAX® RNEW® 1100

## OTHER PROPERTIES

プロパティ	価値	テスト基準
Specific gravity, 23°C (73°F)	0.999 g/cm <sup>3</sup>	ISO 1183-1

## 包装

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 25 kg / 55 lb bags

## 賞味期限

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

## PROCESSING CONDITIONS:

- 典型的な熔融温度 (最小 / 推奨 / 最大) - 射出成形: 230°C / 260°C / 290°C (445°F / 500°F / 555°F)
- 典型的な金型温度 - 射出成形: 10-30°C (50-90°F)
- Drying time and temperature: 70-80°C (160-175°F) / 4-6 hours

## SPECIAL CHARACTERISTICS

- Bio-based

## REGIONAL AVAILABILITY

Asia Pacific, Europe, Latin America and the Caribbean, Middle East, Northern America

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