

## TECHNICAL DATA SHEET

# PEBAX® RNEW® 40F19 SP 03

## POLYETHER BLOCK AMIDE PELLET

PEBAX® RNEW 40F19 SP 03 is a thermoplastic elastomer made of flexible polyether and rigid polyamide, based on renewable resources. This grade is designed for foaming process.

### DESIGNATION

PEBA

### MAIN APPLICATIONS

- Footwear - Insole/Midsole/Foam
- Industry - Distribution

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Injection Molding

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Melt volume flow rate (MVR) (220°C/2.16 Kg)	9 cm³/10min	ISO 1133

## MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Charpy notched impact strength, 23°C (73°F)	No Break / No Break	ISO 179 1eA
Charpy notched impact strength, 23°C (73°F)	No Break / No Break	ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	No Break / No Break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No Break / No Break	ISO 179 1eU
Tensile modulus, 23°C (73°F), 1 mm/min	95 / 92 MPa	ISO 527-1/-2
Stress at 50% strain, 23°C (73°F), 50 mm/min	9 / 9 MPa	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	>28 / >28 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	>700 / >700 %	ISO 527-1/-2
Hardness, Shore D, 15 s	- / 38	ISO 868

\*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	146 °C	ISO 11357-1/-3

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## OTHER PROPERTIES

プロパティ	価値	テスト基準
Bio-based carbon content, Measured	46 %	ASTM D6866
Specific gravity, 23°C (73°F)	1.026 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: 210°C / 230°C / 250°C (410°F / 445°F / 480°F)
- 典型的な金型温度 - 射出成形: 10-30°C (50-90°F)
- Drying time and temperature: 60-70°C (140-160°F) / 4-8 hours

## SPECIAL CHARACTERISTICS

- Bio-based

## REGIONAL AVAILABILITY

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

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

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