

TECHNICAL DATA SHEET

PEBAX® RNEW® 70R53 SP 01

POLYETHER BLOCK AMIDE PELLET

PEBAX® RNEW® 70R53 SP 01 is a polyether block amide, a thermoplastic elastomer made of flexible polyether and rigid polyamide. It is partially produced from a renewable & sustainable source (castor oil). This SP grade is heat & UV stabilized. It is used in sport and consumer applications.

DESIGNATION

PEBA

MAIN APPLICATIONS

- Footwear - Outsole/Components
- Others
- Hoses & Tubes

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

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

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Shrinkage, Parallel (t+24h)	1.2 %	ISO 294-4
Shrinkage, Normal (t+24h)	1.4 %	ISO 294-4

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Hardness, Shore D, 15 s	- / 62	ISO 868
Charpy unnotched impact strength, 23°C (73°F)	- / No Break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break	ISO 179 1eU
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 350 %	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 42 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 24 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 360 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	No Break / No Break	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 15 kJ/m2	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 360 MPa	ISO 178
Stress at break, 23°C (73°F), 50 mm/min	- / 57 MPa	ISO 527-1/-2

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

PEBAX® RNEW® 70R53 SP 01

THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	186 °C	ISO 11357-1/-3

OTHER PROPERTIES

プロパティ	価値	テスト基準
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.7 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	1 %	ISO 62
Specific gravity, 23°C (73°F)	1.03 g/cm ³	ISO 1183-1

包装

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

- 20 kg / 44 lb bags
- 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:

- 典型的な溶融温度 (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: 20-60°C (70-140°F)
- Drying time and temperature: 70-80°C (160-175°F) / 4-6 hours

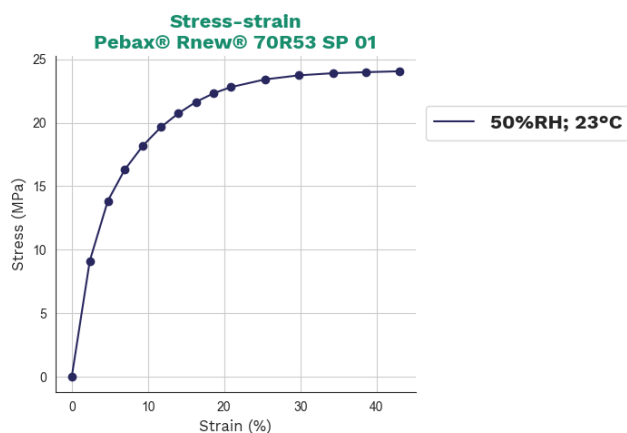
SPECIAL CHARACTERISTICS

- Bio-based

REGIONAL AVAILABILITY

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

DIAGRAMS



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