

TECHNICAL DATA SHEET

RILSAN® BESVO A FDA

POLYAMIDE 11 PELLET

RILSAN® BESVO A FDA is a polyamide 11 resin. It is produced from a renewable & sustainable source (castor oil). This natural grade is designed for tube extrusion. It contains a negligible amount of oligomers and is adapted to food contact applications.

Designation : ISO 16396 - PA11, E, C22-010

DESIGNATION

PA11

MAIN APPLICATIONS

- Other Sport Equipment
- Cable
- Tubing
- Hoses & Tubes - Pneumatics
- Hoses & Tubes
- Film
- Industry - Others
- Industry - Distribution
- Additives PA6

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

RHEOLOGICAL PROPERTIES

| プロパティ | 価値 | テスト基準 |
|---|--------------------------|-----------|
| Shrinkage, Parallel (t+24h) | 1.1 % | ISO 294-4 |
| Shrinkage, Normal (t+24h) | 1.1 % | ISO 294-4 |
| Melt volume flow rate (MVR), 235°C / 10kg (455°F / 22 lb) | 6 cm ³ /10min | ISO 1133 |

RILSAN® BESVO A FDA

MECHANICAL PROPERTIES

| プロパティ | DRY / COND VALUE* | テスト基準 |
|---|-------------------|--------------|
| Hardness, Shore D, 15 s | - / 71 | 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 | - / > 50 % | 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 | - / 36 MPa | ISO 527-1/-2 |
| Tensile modulus, 23°C (73°F), 1 mm/min | - / 1180 MPa | ISO 527-1/-2 |
| Charpy notched impact strength, 23°C (73°F) | - / 15 kJ/m2 | ISO 179 1eA |
| Charpy notched impact strength, -30°C (-22°F) | - / 13 kJ/m2 | ISO 179 1eA |
| Flexural modulus, 23°C (73°F) | - / 1100 MPa | ISO 178 |

*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 | 186 °C | ISO 11357-1/-3 |

ELECTRICAL PROPERTIES

| プロパティ | DRY / COND VALUE* | テスト基準 |
|----------------------------------|-------------------|-------------|
| Dielectric stress, 23°C (73,4°F) | - / 30 | IEC 60243-1 |

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

OTHER PROPERTIES

| プロパティ | 価値 | テスト基準 |
|--|------------------------|------------|
| Water absorption, 23°C(73°F), immersion, equilibrium | 1.9 % | 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:

- 25 kg / 55 lb bags

RILSAN® BESVO A FDA

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.

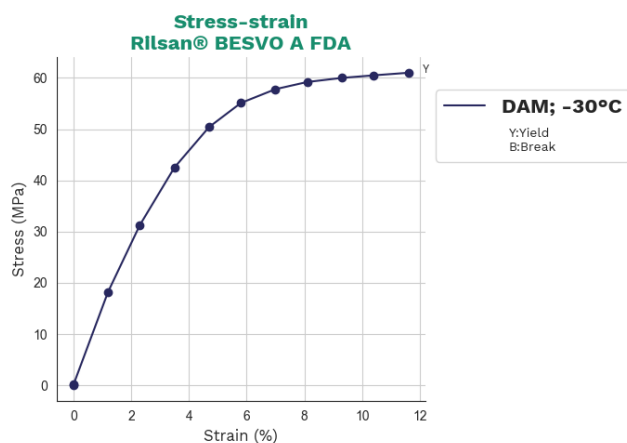
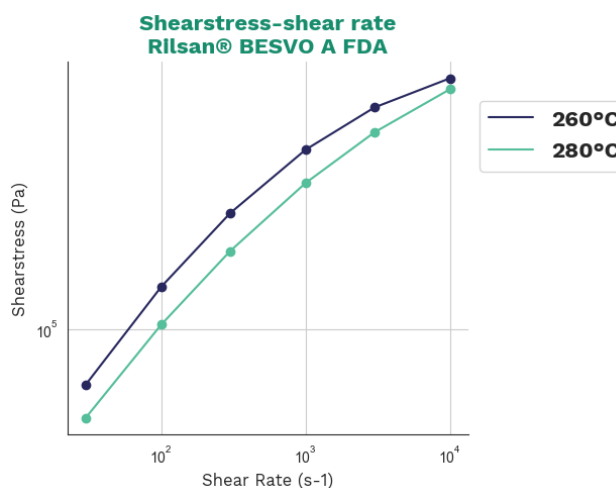
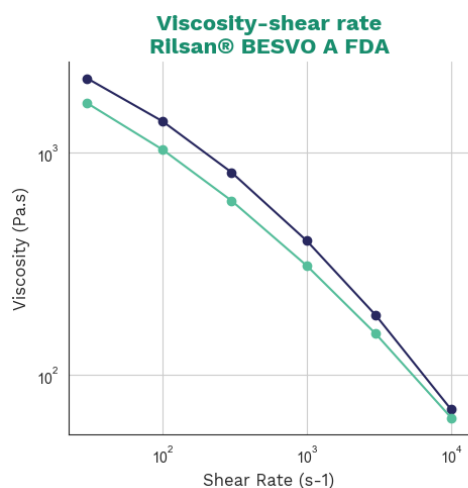
PROCESSING CONDITIONS:

- 典型的な溶融温度 (最小 / 推奨 / 最大) - 射出成形: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- 典型的な金型温度 - 射出成形: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based
- Low oligomers

DIAGRAMS



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