

TECHNICAL DATA SHEET

RILSAN® TIEFLEX S452 NAT T6L

POLYAMIDE ALLOY PELLET

RILSAN® TIEFLEX S452 NAT T6L is a polyamide alloy. It is partially produced from a renewable & sustainable source (castor oil). This grade is designed for multilayer automotive and trucks fuel lines (structural tie layer).

DESIGNATION

PA*

MAIN APPLICATIONS

- Auto - In Tank & Fuel Venting Lines

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer

RHEOLOGICAL PROPERTIES

| プロパティ | 価値 | テスト基準 |
|---|---------------|----------|
| Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb) | 3.7 cm³/10min | ISO 1133 |

MECHANICAL PROPERTIES

| プロパティ | DRY / COND VALUE* | テスト基準 |
|---|-------------------|--------------|
| Tensile modulus, 23°C (73°F), 1 mm/min | 685 / 515 MPa | ISO 527-1/-2 |
| Yield stress, 23°C (73°F), 50 mm/min | - / 33 MPa | ISO 527-1/-2 |
| Yield strain, 23°C (73°F), 50 mm/min | - / 31 % | ISO 527-1/-2 |
| Nominal strain at break, 23°C (73°F), 50 mm/min | - / 25 % | ISO 527-1/-2 |
| 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 |
| Charpy notched impact strength, 23°C (73°F) | - / 95 kJ/m² | ISO 179 1eA |
| Charpy notched impact strength, -30°C (-22°F) | - / 6.5 kJ/m² | ISO 179 1eA |

*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 | 217 °C | ISO 11357-1/-3 |

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OTHER PROPERTIES

| プロパティ | 価値 | テスト基準 |
|--|------------------------|------------|
| Specific gravity, 23°C (73°F) | 1.09 g/cm ³ | ISO 1183-1 |
| Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR | 1.2 % | ISO 62 |
| Water absorption, 23°C(73°F), immersion, equilibrium | 2.9 % | ISO 62 |

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:

- 典型的な溶融温度 (最小 / 推奨 / 最大) - 射出成形: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- 典型的な成型温度 - 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

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