

TECHNICAL DATA SHEET RILSAN® BMVO TLD

POLYAMIDE 11 PELLET

RILSAN® BMVO TLD is a polyamide 11 compound. RILSAN® BMVO TLD is a polyamide 11 compound produced from a renewable & sustainable source (castor oil). This natural grade is designed for injection molding and is used to produce automotive fittings & quick connectors.

Designation : ISO 16396 - PA11, M1G1HLR, C18-010

DESIGNATION

PA11

MAIN APPLICATIONS

- Other Sport Equipment
- Downstream - Gas Station Piping
- Cable
- Compounding
- Hoses & Tubes - Pneumatics
- Hoses & Tubes
- Industry - Distribution
- Other Transportation
- Auto - Fluid Connectors
- Auto - Others Injection
- Heavy Truck H2 & Gas Lines And Tanks

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Release agent

RHEOLOGICAL PROPERTIES

| プロパティ | 価値 | テスト基準 |
|-----------------------------|-------|-----------|
| Shrinkage, Parallel (t+24h) | 1.4 % | ISO 294-4 |
| Shrinkage, Normal (t+24h) | 1.5 % | ISO 294-4 |

RILSAN® BMVO TLD

MECHANICAL PROPERTIES

| プロパティ | DRY / COND VALUE* | テスト基準 |
|---|-------------------|--------------|
| Tensile modulus, 23°C (73°F), 1 mm/min | 1320 / 1260 MPa | ISO 527-1/-2 |
| Yield stress, 23°C (73°F), 50 mm/min | - / 42 MPa | ISO 527-1/-2 |
| Yield strain, 23°C (73°F), 50 mm/min | - / 5 % | ISO 527-1/-2 |
| Nominal strain at break, 23°C (73°F), 50 mm/min | - / > 50 % | ISO 527-1/-2 |
| Flexural modulus, 23°C (73°F) | - / 1145 MPa | ISO 178 |
| 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) | - / 12 kJ/m2 | ISO 179 1eA |
| Charpy notched impact strength, -30°C (-22°F) | - / 10 kJ/m2 | ISO 179 1eA |
| Hardness, Shore D, 15 s | - / 71 | 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 | 189 °C | ISO 11357-1/-3 |

OTHER PROPERTIES

| プロパティ | 価値 | テスト基準 |
|-------------------------------|------------------------|------------|
| 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

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: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- 典型的な金型温度 - 射出成形: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based
- Low oligomers

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Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

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