

## TECHNICAL DATA SHEET

# RILSAN® BESN BLACK TL

## POLYAMIDE 11 PELLET

RILSAN® BESN BLACK TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This grade is designed for tube extrusion.

Designation : ISO 16396 - PA11, EG1HL, C22-010

### DESIGNATION

PA11

### MAIN APPLICATIONS

- Hoses & Tubes
- Industry - Distribution
- Auto - Others Extrusion
- Auto - Metal Tube Coating

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Sheet Extrusion
- Tube Extrusion

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
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	41 / 41 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	1420 / 1420 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 10 kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 12 kJ/m2	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1280 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

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## 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)	1.02 g/cm <sup>3</sup>	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:

- 典型的な熔融温度 (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

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