

## TECHNICAL DATA SHEET

# RILSAN® BESN BLACK P024 TL

## POLYAMIDE 11 PELLET

RILSAN® BESN BLACK P024 CTL is a polyamide 11 extrusion grade produced from a renewable & sustainable source (castor oil). This impact-modified grade is specially designed for low extractible mono or multi-layer automotive fuel line applications.

Designation : ISO 16396 - PA 11-I, EG1HL, C18-010

### DESIGNATION

PA11-I

### MAIN APPLICATIONS

- Auto - Water Cooling Circuit
- Auto - In Tank & Fuel Venting Lines
- Auto - Gasoline Lines

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Tensile modulus, 23°C (73°F), 1 mm/min	1250 / 1190 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	38 / 35 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	5 / 6 %	ISO 527-1/-2
Stress at 50% strain, 23°C (73°F), 50 mm/min	35 / 35 MPa	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	35 / 35 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	> 50 / > 50 %	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	1150 / 1070 MPa	ISO 178
Charpy unnotched impact strength, 23°C (73°F)	No break / No break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No break / No break	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	80 / 81 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	21 / 21 kJ/m <sup>2</sup>	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	182 °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)	1.02 g/cm <sup>3</sup>	ISO 1183-1

## 包装

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

- 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 / 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

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

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