

## TECHNICAL DATA SHEET

# RILSAN® BZM 30 BLACK TL

## POLYAMIDE 11 PELLET

RILSAN® BZM 30 BLACK TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This glass fiber reinforced grade is designed for injection molding and is a market reference to produce air brake or automotive fittings & quick connectors.

Designation : ISO 16396 - PA11, GF30, M1G1HLR, C18-070

### DESIGNATION

PA11-GF30

### MAIN APPLICATIONS

- Industry - Others
- Industry - Distribution
- Auto - Fluid Connectors
- Heavy Truck - Air Brake Connectors

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Injection Molding

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Shrinkage, Parallel (t+24h)	0.3 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.7 %	ISO 294-4
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	7 cm <sup>3</sup> /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	6300 / 6300 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	6 / 7.5 %	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 5640 MPa	ISO 178
Charpy unnotched impact strength, 23°C (73°F)	- / 74 kJ/m <sup>2</sup>	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / 83 kJ/m <sup>2</sup>	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	- / 20 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 11 kJ/m <sup>2</sup>	ISO 179 1eA
Hardness, Shore D, 15 s	- / 74	ISO 868

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

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## 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)	1.25 g/cm <sup>3</sup>	ISO 1183-1
Water absorption, 23°C(73°F), immersion, equilibrium	1.3 %	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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