

## TECHNICAL DATA SHEET RILSAN® BZM 7 0 TL

### POLYAMIDE 11 PELLET

RILSAN® BZM 7 0 TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This natural glass fiber reinforced grade is designed for injection molding and is used in sport & consumer applications.

Designation : ISO 16396 - PA11, GF7, M1G1HLR, C18-030

#### DESIGNATION

PA11-GF7

#### DELIVERY FORM

- Pellets

#### TRANSFORMATION PROCESSES

- Injection Molding

#### ADDITIVES

- Heat Stabilized
- Light Stabilized

### RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Shrinkage, Parallel (t+24h)	1.0 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.8 %	ISO 294-4
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	20 cm <sup>3</sup> /10min	ISO 1133

### MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Flexural modulus, 23°C (73°F)	- / 1500 MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	1860 / 1860 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 48 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 7 %	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	- / 31 %	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 22 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 12 kJ/m <sup>2</sup>	ISO 179 1eA
Hardness, Shore D, 15 s	- / 71	ISO 868

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

속성	값	테스트 표준
Melting temperature, 10°C/min	189 °C	ISO 11357-1/-3

# RILSAN® BZM 7 0 TL

## OTHER PROPERTIES

속성	값	테스트 표준
Specific gravity, 23°C (73°F)	1.07 g/cm <sup>3</sup>	ISO 1183-1
Bio-based carbon content, Measured	93 %	ASTM D6866

## PACKAGING

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

- 26 kg / 55 lb bags

## SHELF LIFE

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.

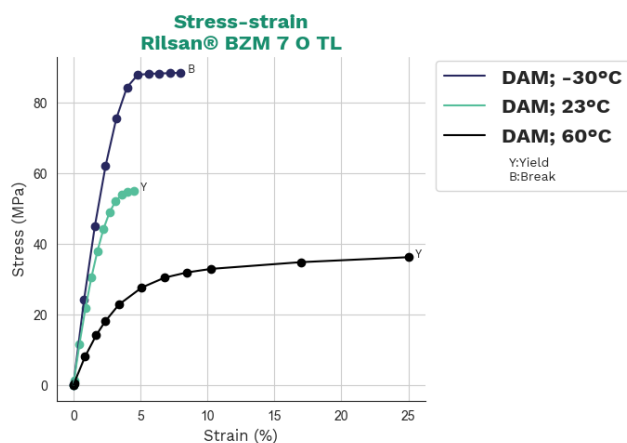
## PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- Typical mold temperature - Injection molding: 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

## DIAGRAMS



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