

## TECHNICAL DATA SHEET

# RILSAN® BSR 30

## POLYAMIDE 11 PELLET

RILSAN® BSR 30 is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This black reinforced grade is designed for injection molding and is used to produce automotive fittings or quick connectors, the incorporation of carbon fiber leading to a very rigid and tough product with electrostatic discharge (ESD) performance.

**Designation :** ISO 16396 - PA11, CF30, M1G1HLR, C11-140

### DESIGNATION

PA11-CF30

### MAIN APPLICATIONS

- Winter Sports - Ski Boots
- Footwear - Outsole/Components
- Other Transportation

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Injection Molding

### ADDITIVES

- Heat Stabilized
- Light Stabilized
- Release agent

## RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	12 cm <sup>3</sup> /10min	ISO 1133
Shrinkage, Parallel (t+24h)	0 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.6 %	ISO 294-4

## MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 11100 MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	- / 16300 MPa	ISO 527-1/-2
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)	- / 12 kJ/m <sup>2</sup>	ISO 179 1eA

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

## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	188 °C	ISO 11357-1/-3

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## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Bio-based carbon content, Measured	62 %	ASTM D6866
Specific gravity, 23°C (73°F)	1.15 g/cm <sup>3</sup>	ISO 1183-1

## PACKAGING

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

- 25 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: 260°C / 275°C / 290°C (500°F / 525°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
- Electrostatic discharge (ESD)
- Low oligomers

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