+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
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RILSAN®

TECHNICAL DATA SHEET

# RILSAN® BESN BLACK P123 TL

## POLYAMIDE 11 PELLET

RILSAN® BESN BLACK P123 TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This impact-modified grade is designed for tube extrusion and has improved hydrolysis resistance. It is a market reference to produce automotive cooling & selective catalyst reduction (SCR) lines.

**Designation :** ISO 16396 - PA 11-I, EG1HL, C18-007

### TYPE

PA11-I

### MAIN APPLICATIONS

- Auto Battery Cooling
- Auto Enging Cooling
- Auto - SCR Lines & Tanks
- Heavy Truck H2 & Gas Lines And Tanks
- Heavy Truck - Air Brake Lines

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## MECHANICAL PROPERTIES

| PROPERTIES | DRY / COND VALUE* | UNIT | TEST STANDARD |
|---|---|---|---|
| Yield stress, 23°C (73°F), 50 mm/min | 23 / 23 | MPa | ISO 527-1/-2 |
| Yield strain, 23°C (73°F), 50 mm/min | 25 / 25 | % | ISO 527-1/-2 |
| Nominal strain at break, 23°C (73°F), 50 mm/min | > 50 / > 50 | % | ISO 527-1/-2 |
| Charpy notched impact strength, 23°C (73°F) | - / 100 | kJ/m2 | ISO 179 1eA |
| Charpy notched impact strength, -30°C (-22°F) | - / 25 | kJ/m2 | ISO 179 1eA |

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

## THERMAL PROPERTIES

| PROPERTIES | VALUE | UNIT | TEST STANDARD |
|---|---|---|---|
| Melting temperature, 10°C/min | 189 | °C | ISO 11357-1/-3 |

## OTHER PROPERTIES

| PROPERTIES | VALUE | UNIT | TEST STANDARD |
|---|---|---|---|
| Specific gravity, 23°C (73°F) | 1 | g/cm³ | ISO 1183-1 |

## PACKAGING

Available packaging:
- 25 kg / 55 lb bags

ARKEMA

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# RILSAN® BESN BLACK P123 TL

## 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: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Typical mold temperature - Injection molding: 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