

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

TYPE

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

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
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 break, 23°C (73°F), 50 mm/min	36 / 35	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	> 100 / > 100	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	1150 / 1050	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)	80P / 82P	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	21 / 21	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -40°C (-40°F)	10.1 / 18.4	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	188	°C	ISO 11357-1/-3

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.02	g/cm³	ISO 1183-1

PACKAGING

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: 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

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