

TECHNICAL DATA SHEET RILSAN® BESN G9 TL

POLYAMIDE 11 PELLET

RILSAN® BESN G9 TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This black grade with improved friction properties is designed for tube extrusion.

Designation : ISO 16396 - PA11, CDx, EG1HLS, C22-020

TYPE

PA11

MAIN APPLICATIONS

- Hoses & Tubes
- Industry - Distribution
- Auto - Others Extrusion
- Auto - Others Injection

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Lubricants

RHEOLOGICAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Melt volume flow rate (MVR), 235°C / 2.16 kg (455°F / 4.4 lb)	1	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	UNIT	テスト基準
Hardness, Shore D, 15 s	- / 71		ISO 868
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		ISO 179 1eU
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 5	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	46 / 46	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	2130 / 2130	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 7	kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 6	kJ/m²	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1790	MPa	ISO 178

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

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THERMAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Vicat softening temperature, 50N at 50°C/h	162	°C	ISO 306
Heat deflection temperature, 0.45 MPa	168	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	56	°C	ISO 75-1/-2
Melting temperature, 10°C/min	186	°C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

プロパティ	DRY / COND VALUE*	UNIT	テスト基準
Surface resistivity, 23°C (73°F)	- / 6.0E+13	ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	- / 5.0E+11	ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73°F)	- / 600		IEC 60112
Dielectric stress, 23°C (73°F)	- / 55		IEC 60243-1

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OTHER PROPERTIES

プロパティ	価値	UNIT	テスト基準
Water absorption, 23°C(73°F), immersion, equilibrium	1.7	%	ISO 62
Specific gravity, 23°C (73°F)	1.09	g/cm³	ISO 1183-1

包装

Available packaging:

- 25 kg / 55 lb 袋

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: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- 典型的な金型温度 - 射出成形: 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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DIAGRAMS

