

RILSAN® BESN G9 TL

PA11, EHLS, 22-020, CD10

Rilsan® BESN G9 TL resin is a polyamide 11 produced from a renewable source. This black grade with improved friction properties is designed for extrusion.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **>85%**.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	1 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 2130	MPa	ISO 527-1/-2
Yield stress	- / 46	MPa	ISO 527-1/-2
Yield strain	- / 5	%	ISO 527-1/-2
Nominal Strain at Break	- / > 50	%	ISO 527-1/-2
Shore D Hardness, 15s	71 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 7	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	186 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	56 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	168 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	162 / *	°C	ISO 306
ELECTRICAL PROPERTIES			
Volume Resistivity	- / 5E11	Ohm*m	IEC 60093
Surface Resistivity	* / 6E13	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 55	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.7 / *	%	Sim. to ISO 62
Density	1090 / 1090	kg/m³	ISO 1183
%Bio-Based	85	-	ASTM D6866

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MAIN APPLICATIONS:

- Tube with improved friction properties

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RILSAN®
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RILSAN® BESN G9 TL

PACKAGING:

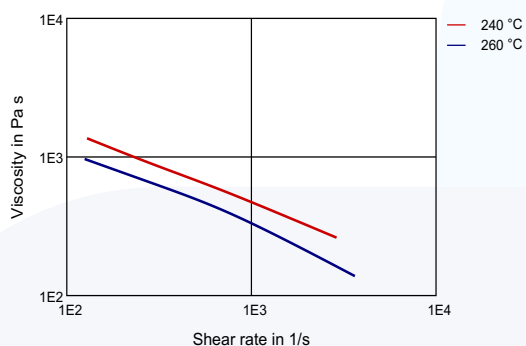
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

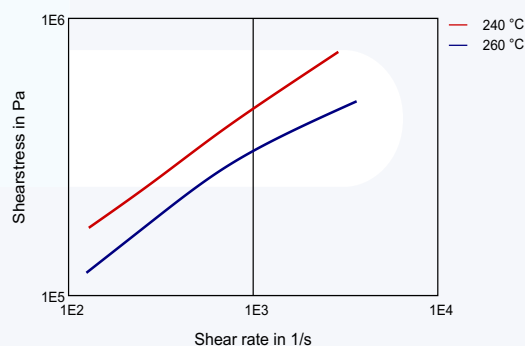
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE



SHEARSTRESS-SHEAR RATE



Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 280°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 80-90°C.

PROCESSING

Film Extrusion, Profile Extrusion, Other Extrusion

DELIVERY FORM

Pellets

ADDITIVES

Lubricants

SPECIAL CHARACTERISTICS

Bio-Based, Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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