

RILSAN® BECNO TL

PA11, KHL, 12-010

Rilsan® BECNO TL resin is a polyamide produced from a renewable source. This natural grade is designed for cable coating. 11

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **>98%**.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	30 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	1470 / 1330	MPa	ISO 527-1/-2
Yield stress	43 / 42	MPa	ISO 527-1/-2
Yield strain	5 / 5	%	ISO 527-1/-2
Nominal Strain at Break	>50 / >50	%	ISO 527-1/-2
Shore D Hardness, 15s	70 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 9	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m ²	ISO 179/1eA
Puncture - Maximum Force, -30°C	- / 5500	N	ISO 6603-2
Puncture Energy, -30°C	- / 65	J	ISO 6603-2
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	189 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	150 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	160 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	90 / *	E-6/K	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	3 / -	-	IEC 60250
Relative Permittivity, 1MHz	3 / -	-	IEC 60250
Dissipation Factor, 100Hz	274 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	166 / -	E-4	IEC 60250
Volume Resistivity	- / 1E12	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1

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RILSAN®
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RILSAN® BECNO TL

Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.9 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183
%Bio-Based	98	-	ASTM D6866

MAIN APPLICATIONS:

- Wire and cable sheathing

PACKAGING:

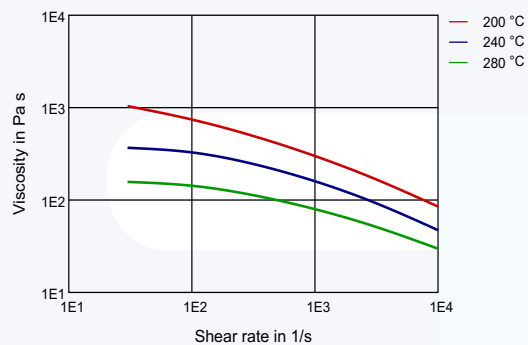
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

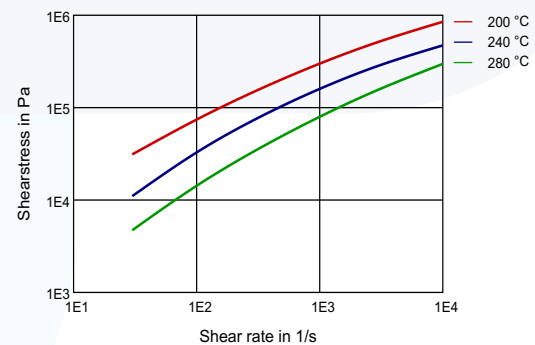
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE

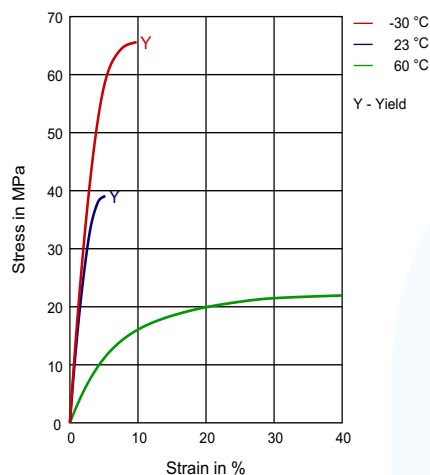


SHEARSTRESS-SHEAR RATE

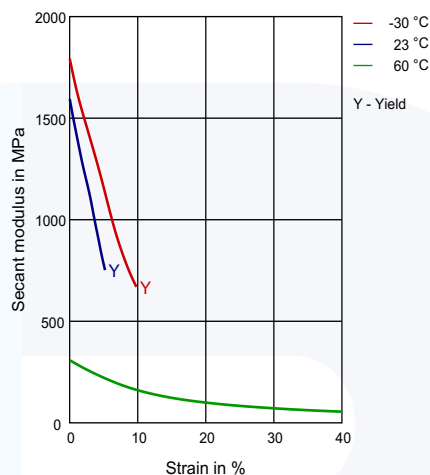


RILSAN® BECNO TL

STRESS-STRAIN



SECANT MODULUS-STRAIN



Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 240°C / 250°C / 260°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80-90°C.

PROCESSING

Injection Molding, 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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