

RILSAN® BESNO P20 TLO

PA11-P, EHL, 22-005

Rilsan® BESNO P20 TLO resin is a polyamide 11 produced from a renewable source. This natural grade is plasticized and designed for extrusion.

This grade contains a low amount of oligomers.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **>93%**.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	2 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 510	MPa	ISO 527-1/-2
Yield stress	- / 29	MPa	ISO 527-1/-2
Yield strain	- / 39	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness, 15s	63 / *	-	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	- / No Break	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	182 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Water Absorption	1.8 / *	%	Sim. to ISO 62
Density	1040 / 1040	kg/m ³	ISO 1183
%Bio-Based	93	-	ASTM D6866

MAIN APPLICATIONS:

- Fluid transportation
- Tubing for use in motor vehicle
- Clean hose for offshore umbilicals
- Liner for steel pipes or composite tubes

PACKAGING:

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

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BY ARKEMA

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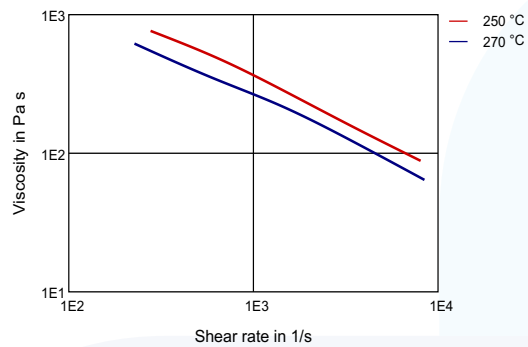
RILSAN® BESNO P20 TLO

SHELF LIFE:

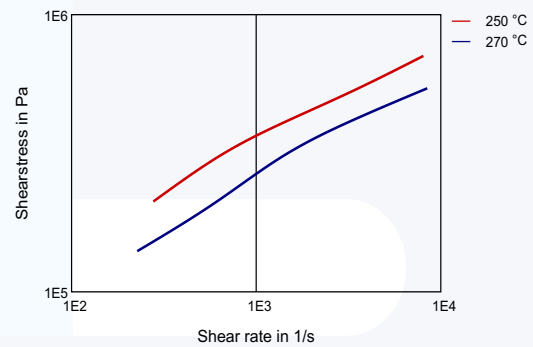
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

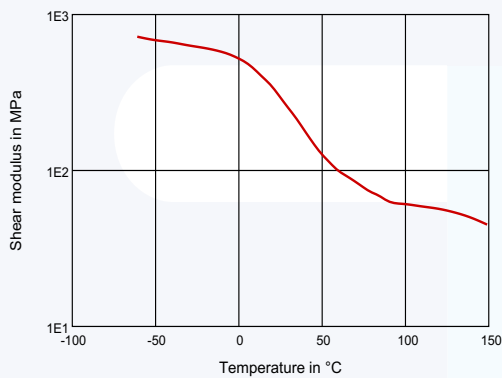
VISCOSITY-SHEAR RATE



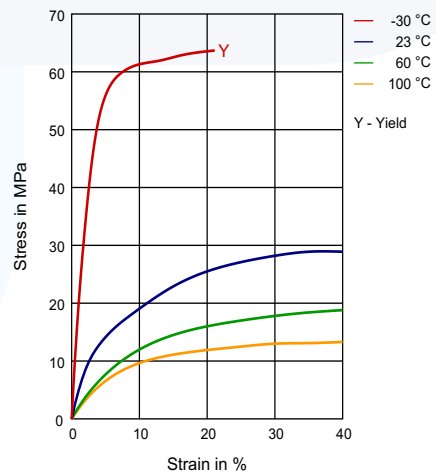
SHEARSTRESS-SHEAR RATE



DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



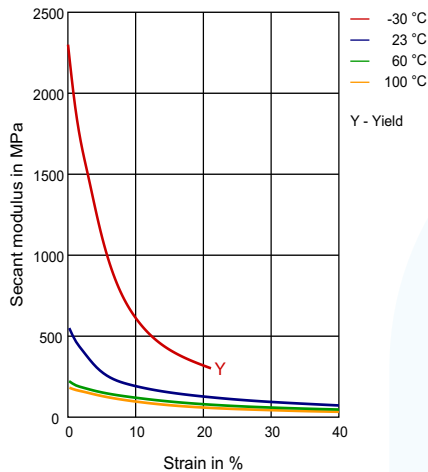
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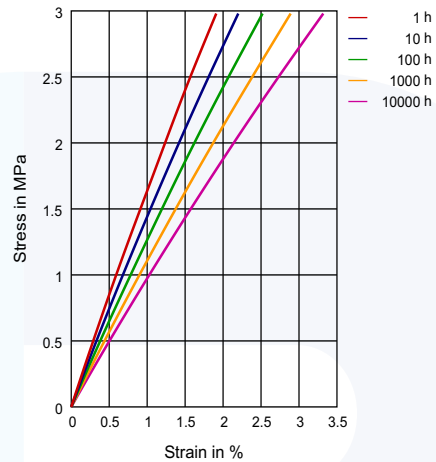
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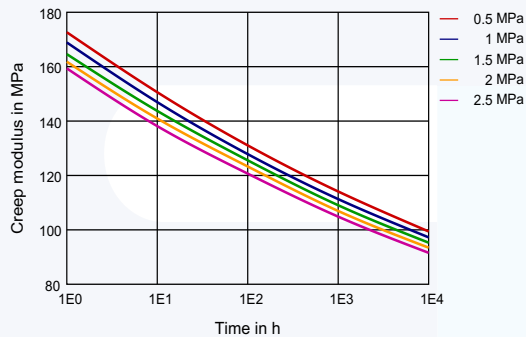
SECANT MODULUS-STRAIN



STRESS-STRAIN (ISOCHRONOUS) 40°C



CREEP MODULUS-TIME 40°C



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

Profile Extrusion, Other Extrusion

DELIVERY FORM

Pellets

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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ADDITIVES

Lubricants, Plasticizer

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