

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%**.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	2 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
MECHANICAL PROPERTIES			
Tensile Modulus	- / 510	MPa	ISO 527-1/-2
	- / 74000	psi	
Yield stress	- / 29	MPa	ISO 527-1/-2
	- / 4210	psi	
Yield strain	- / 39	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	63 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / 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	- / No Break	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m²	ISO 179/1eA
	- / 4.76	ftlb/in²	
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/m³	ISO 1183
	1.04 / 1.04	g/cm³	
%Bio-Based	93	-	ASTM D6866

RILSAN[®]

BESNO P20 TLO

MAIN APPLICATIONS:

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

PACKAGING:

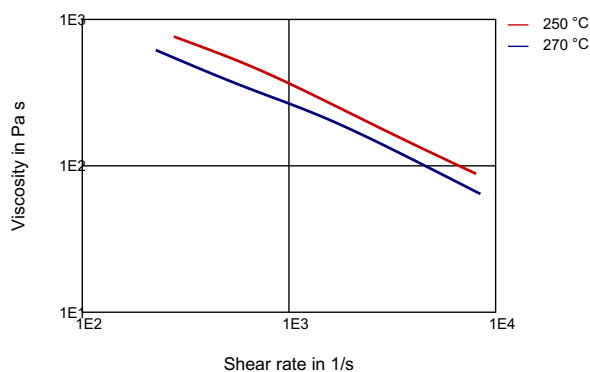
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

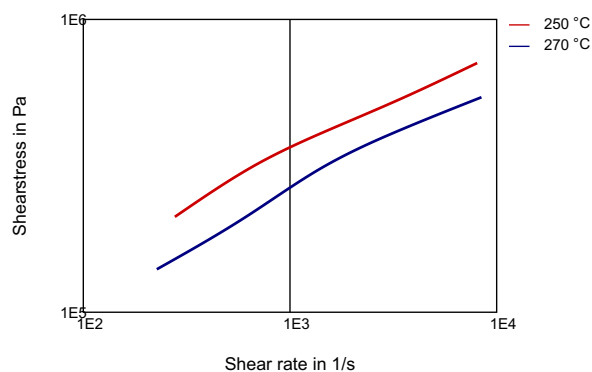
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE

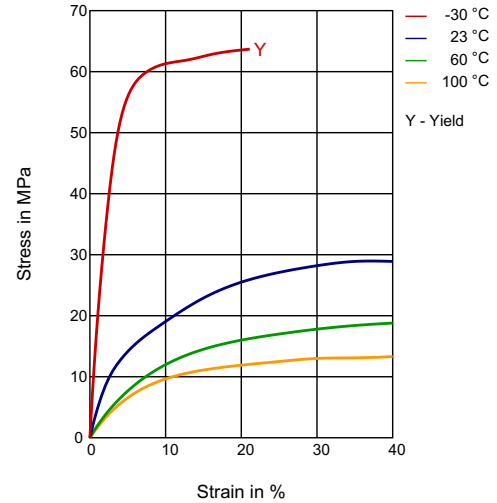
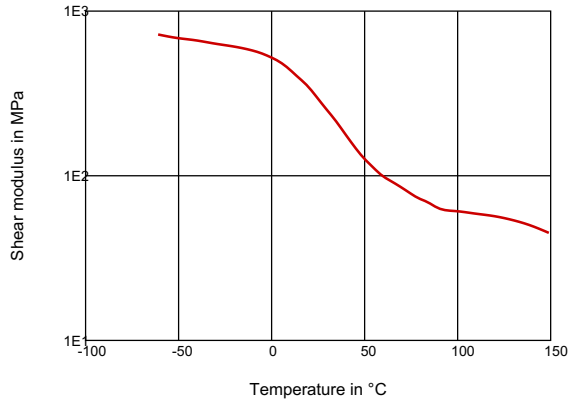


SHEARSTRESS-SHEAR RATE

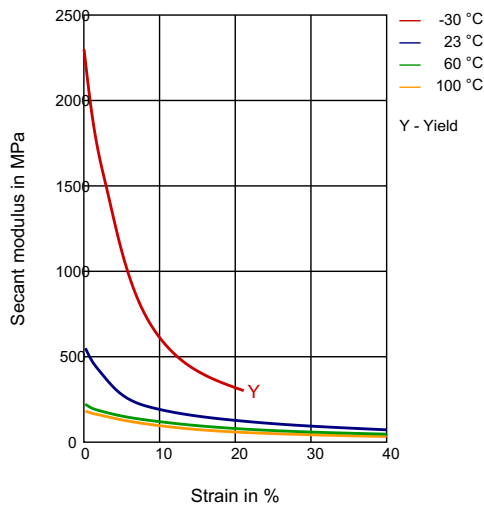


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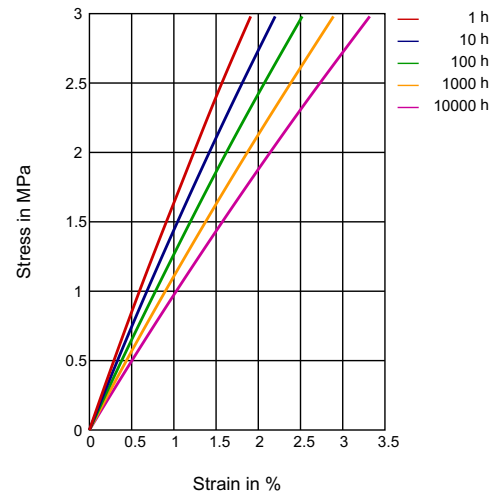
DYNAMIC SHEAR MODULUS-TEMPERATURE STRESS-STRAIN



SECANT MODULUS-STRAIN

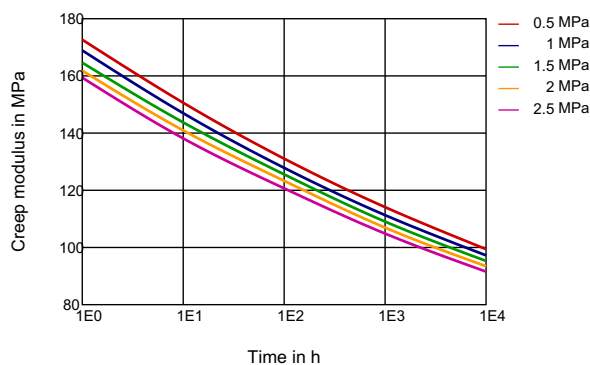


STRESS-STRAIN (ISOCHRONOUS) 104°F



RILSAN® BESNO P20 TLO

CREEP MODULUS-TIME 104°F



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	
ADDITIVES Lubricants, Plasticizer	
SPECIAL CHARACTERISTICS Bio-Based, Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	