

RILSAN® BESVO A MED

PA11, E, 22-010

Rilsan® BESVO A MED resin is a polyamide 11 produced from a renewable source. This natural grade, dedicated to extrusion, contains a negligible amount of oligomers. **Rilsan® BESVO A MED resin** offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices.

Upon request letters regarding USP Class VI compliance can be provided.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **100%**.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	6 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	10 / *	kg	-
	22 / *	lb	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1180	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	17 / 1000	MPa	ISO 527-1/-2
	- / 36	psi	
Yield strain	- / 5220	psi	
	- / 5	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	71 / *	-	ISO 868
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	- / 15	kJ/m ²	ISO 179/1eA
	- / 7.14	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 13	kJ/m ²	ISO 179/1eA
	- / 6.18	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	186 / *	°C	ISO 11357-1/-3
Oxygen Index	25 / *	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
	- / 762	kV/in	
OTHER PROPERTIES			

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Water Absorption	1.9 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183
	1.03 / 1.03	g/cm ³	
%Bio-Based	100	-	ASTM D6866

MAIN APPLICATIONS:

- Nutritional bags
- Catheters

PACKAGING:

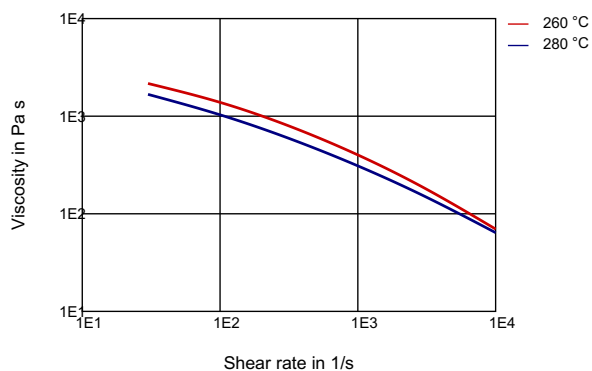
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

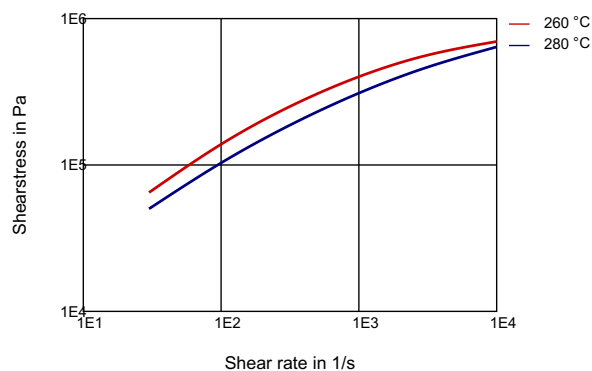
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE

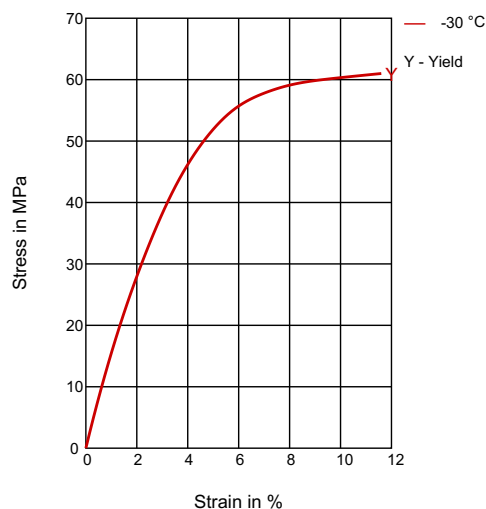


SHEARSTRESS-SHEAR RATE

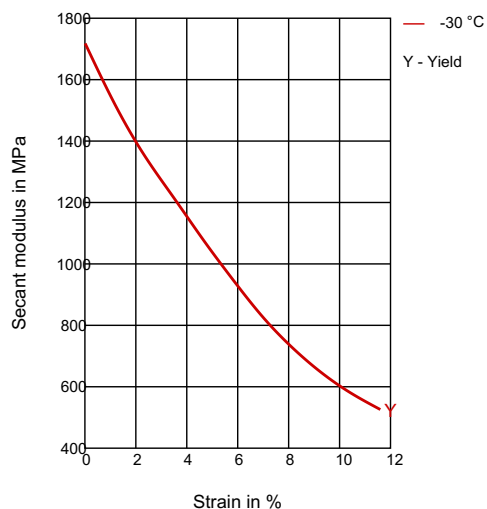


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STRESS-STRAIN



SECANT MODULUS-STRAIN



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) : 4-6 hours at 65-80°C.

<p>PROCESSING</p> <p>Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion</p>	
<p>DELIVERY FORM</p> <p>Pellets</p>	
<p>SPECIAL CHARACTERISTICS</p> <p>Bio-Based</p>	
<p>REGIONAL AVAILABILITY</p> <p>North America, Europe, Asia Pacific, South and Central America, Near East/Africa</p>	