

# 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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	6 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	10 / *	kg	-
	22 / *	lb	-
Molding Shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 1180	MPa	ISO 527-1/-2
	- / 171000	psi	
Yield Stress	- / 36	MPa	ISO 527-1/-2
	- / 5220	psi	
Yield Strain	- / 5	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness, after 15 s	71 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 15	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 7.14	ftlb/in <sup>2</sup>	
Charpy Notched Impact Strength, -30°C	- / 13	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 6.18	ftlb/in <sup>2</sup>	
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	186 / *	°C	ISO 11357-1/-3
Oxygen Index	25 / *	%	ISO 4589-1/-2
<b>ELECTRICAL PROPERTIES</b>			
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
	- / 762	kV/in	
<b>OTHER PROPERTIES</b>			

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SDC/11-2018  
 Source: automatically generated TDS from Material Database on 12-08-2024

# RILSAN® BESVO A MED

Water Absorption, 23°C, immersion, equilibrium	1.9 / *	%	ISO 62
Density	1030 / 1030	kg/m <sup>3</sup>	ISO 1183
	1.03 / 1.03	g/cm <sup>3</sup>	

## MAIN APPLICATIONS:

- Nutritional bags
- Catheters

## PACKAGING:

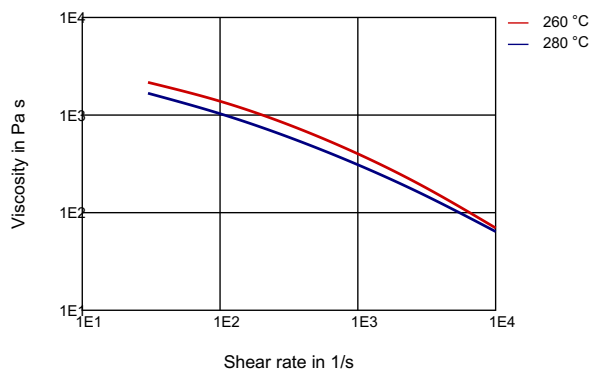
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

## SHELF LIFE:

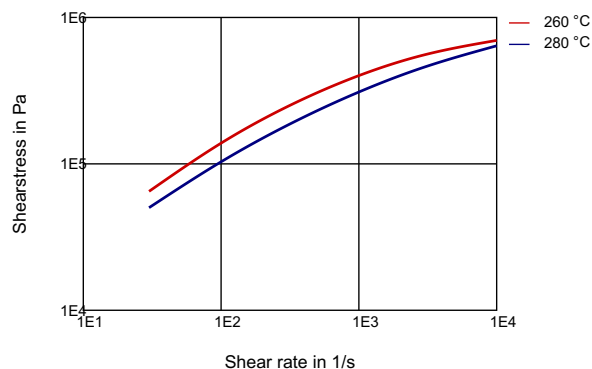
Two years from the delivery. For any use above this limit, please refer to our technical services.

## DIAGRAMS

### VISCOSITY-SHEAR RATE



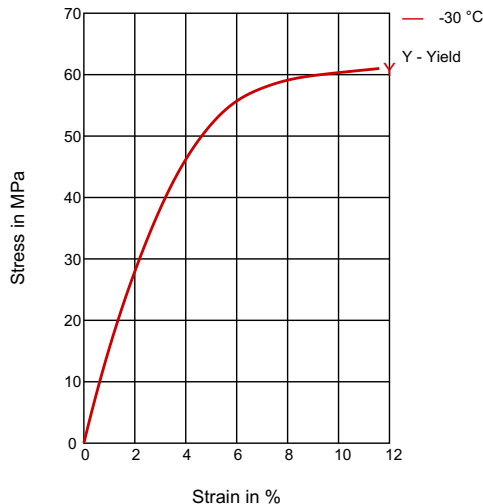
### SHEARSTRESS-SHEAR RATE



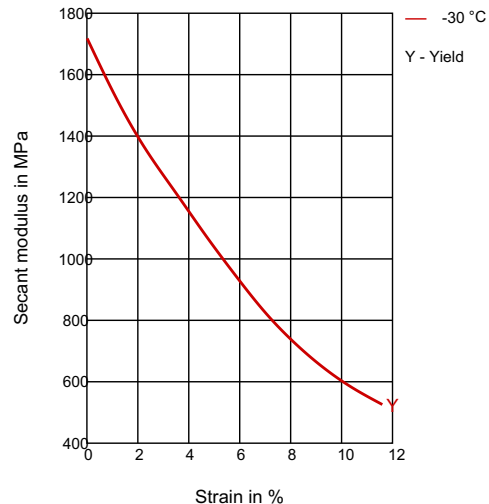
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# RILSAN® BESVO A MED

## 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><b>PROCESSING</b></p> <p>Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion</p>	<p>Headquarters:</p> <p>Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com</p>
<p><b>DELIVERY FORM</b></p> <p>Pellets</p>	
<p><b>SPECIAL CHARACTERISTICS</b></p> <p>Bio-Based</p>	<p>Arkema Inc. – High Performance Polymers</p> <p>900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com</p>
<p><b>REGIONAL AVAILABILITY</b></p> <p>North America, Europe, Asia Pacific, South and Central America, Near East/Africa</p>	

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