

# RILSAN® BESVO A FDA

PA11,E,22-010

**Rilsan® BESVO A FDA resin** is a polyamide 11 produced from a renewable source. This natural grade, dedicated to extrusion, contains a negligible amount of oligomers and is specially designed for food contact applications.

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

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	6 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	10 / *	kg	-
	22 / *	lb	-
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 1180	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	17 / 1000	MPa	ISO 527-1/-2
	- / 36		
	- / 5220	psi	
Yield strain	- / 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 <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
<b>ELECTRICAL PROPERTIES</b>			
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
	- / 762	kV/in	
<b>OTHER PROPERTIES</b>			
Water Absorption	1.9 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m <sup>3</sup>	ISO 1183
	1.03 / 1.03	g/cm <sup>3</sup>	

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 Source: automatically generated TDS from Material Database on 25-04-2023

# RILSAN<sup>®</sup> BESVO A FDA

%Bio-Based

100

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ASTM D6866

## MAIN APPLICATIONS:

- Food and beverage tubing
- Forensic evidence bags

## PACKAGING:

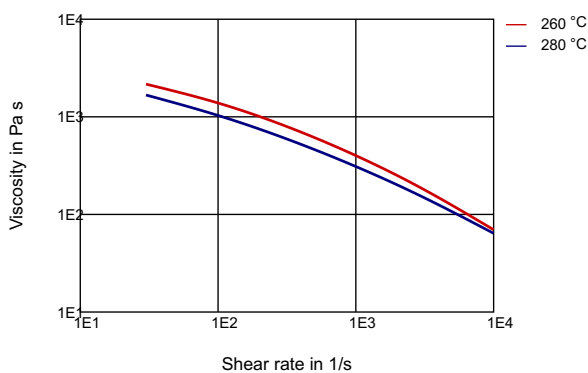
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

## SHELF LIFE:

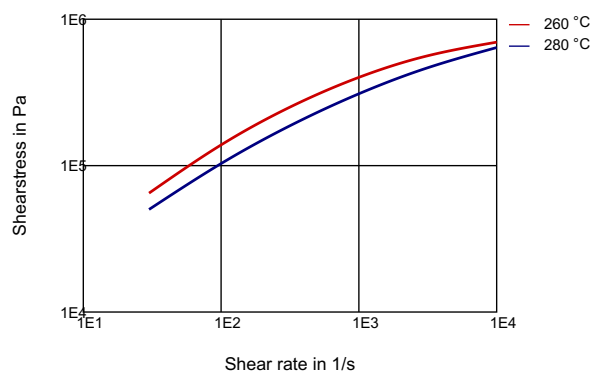
Two years from the delivery. For any use above this limit, please refer to our technical services.

## DIAGRAMS

### VISCOSITY-SHEAR RATE

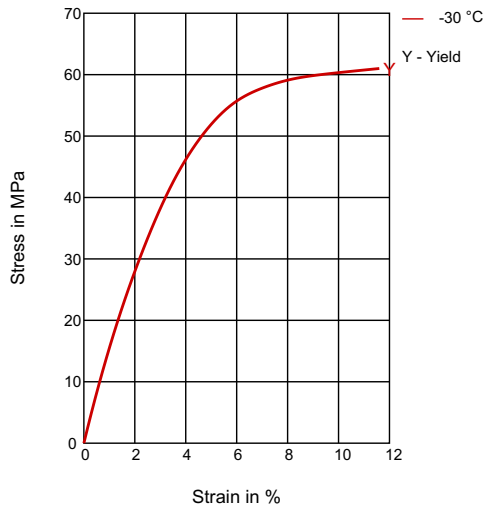


### SHEARSTRESS-SHEAR RATE

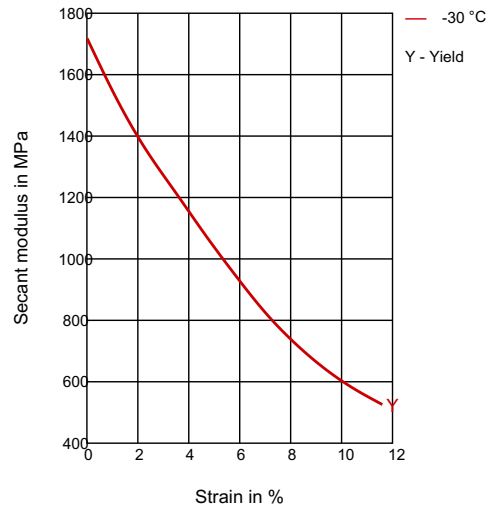


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## STRESS-STRAIN



## 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><b>PROCESSING</b></p> <p>Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion</p>	<p>Headquarters: 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>Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com</p>
<p><b>DELIVERY FORM</b></p> <p>Pellets</p>	
<p><b>SPECIAL CHARACTERISTICS</b></p> <p>Bio-Based, Food Contact Approval</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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