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
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	6 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	10 / *	kg	-
	22 / *	lb	
MECHANICAL PROPERTIES			
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	71 / *	-	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	- / 15	kJ/m²	ISO 179/1eA
	- / 7.14	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 13	kJ/m²	ISO 179/1eA
	- / 6.18	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	186 / *	°C	ISO 11357-1/-3
ELECTRICAL PROPERTIES			
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
	- / 762	kV/in	
OTHER PROPERTIES			
Water Absorption	1.9 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m³	ISO 1183
	1.03 / 1.03	g/cm³	

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%Bio-Based	100	-	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.

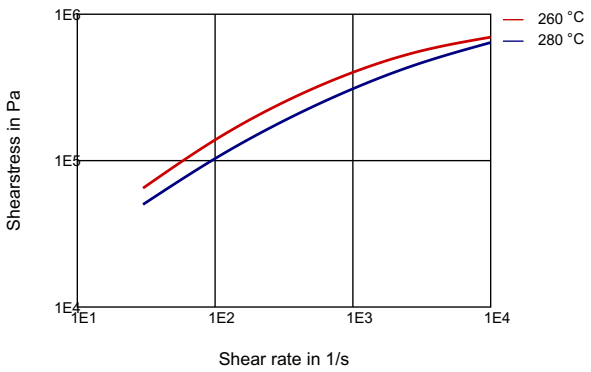
SHELF LIFE:

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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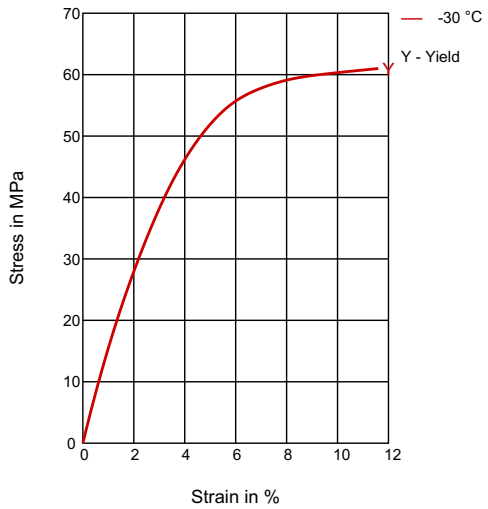
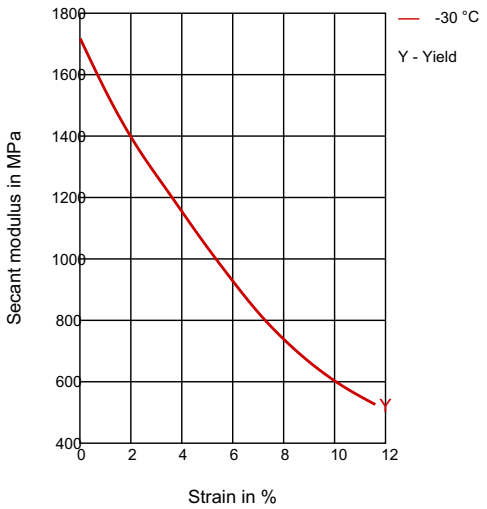
STRESS-STRAIN



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.

PROCESSING

Injection Molding, Film Extrusion, Profile Extrusion, Other Extrusion

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Bio-Based, Food Contact Approval

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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