

RILSAN® MB 3610 NAT

PA11-P, EHL, 22-002

Rilsan® MB 3610 NAT resin is a polyamide 11 produced from a renewable source. This natural grade is plasticized and specially designed for pneumatic applications. It combines very high flexibility with good impact resistance.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **>59%**.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	4 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 210	MPa	ISO 527-1/-2
Shore D Hardness, 15s	53 / *	-	ISO 7619-1
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	- / No Break	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	188 / *	°C	ISO 11357-1/-3
ELECTRICAL PROPERTIES			
Volume Resistivity	1.9E11 / -	Ohm*m	IEC 60093
OTHER PROPERTIES			
Water Absorption	1.1 / *	%	Sim. to ISO 62
Humidity Absorption	0.45 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183
%Bio-Based	59	-	ASTM D6866

MAIN APPLICATIONS:

- Pneumatic tubing

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.

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

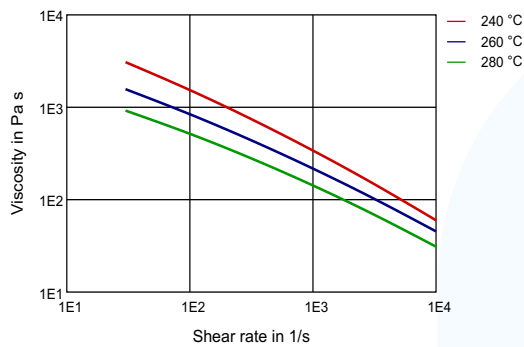
RILSAN®
BY **ARKEMA**

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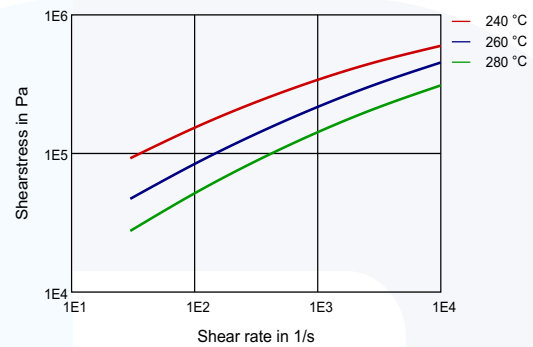
RILSAN® MB 3610 NAT

DIAGRAMS

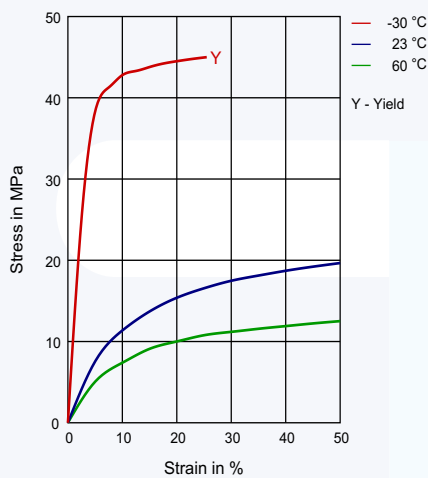
VISCOSITY-SHEAR RATE



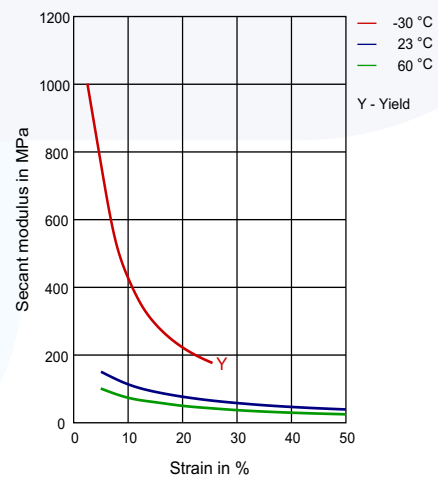
SHEARSTRESS-SHEAR RATE



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) : 4-8 hours at 80-90°C.

PROCESSING

Profile Extrusion

SPECIAL CHARACTERISTICS

Bio-Based, Heat Stabilized, Light Stabilized

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DELIVERY FORM

Pellets

ADDITIVES

Plasticizer

REGIONAL AVAILABILITY

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

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