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%.**

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	4 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
MECHANICAL PROPERTIES			
Tensile Modulus	- / 210	MPa	ISO 527-1/-2
	- / 30500	psi	
Shore D Hardness	53 / *	-	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	- / No Break	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m²	ISO 179/1eA
	- / 4.76	ftlb/in²	
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/m³	ISO 1183
	1.03 / 1.03	g/cm³	
%Bio-Based	59	-	ASTM D6866

MAIN APPLICATIONS:

- Pneumatic tubing

ARKEMA

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

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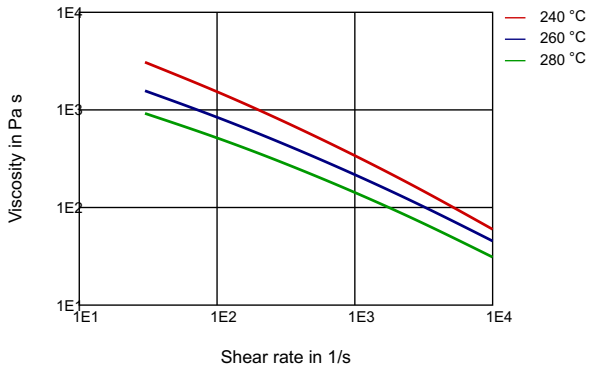
PACKAGING:
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

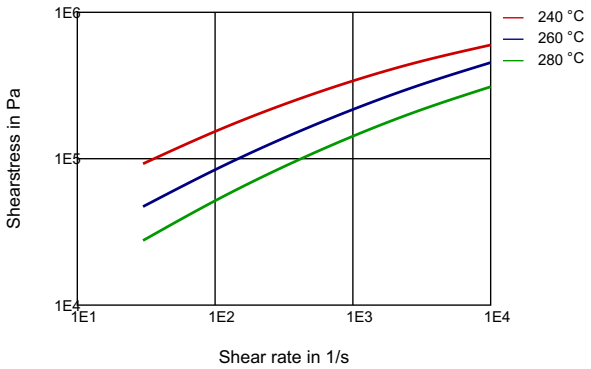
SHELF LIFE:
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

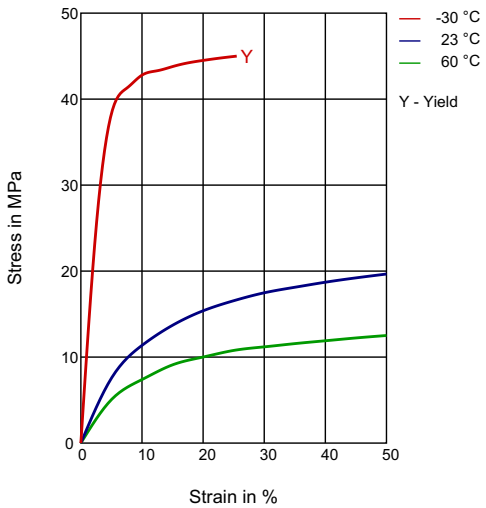
VISCOSITY-SHEAR RATE



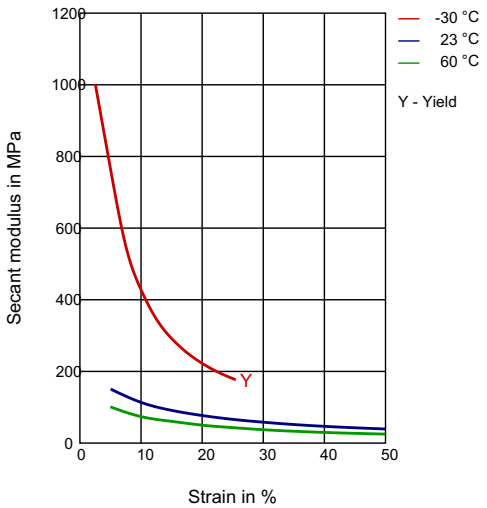
SHEARSTRESS-SHEAR RATE



STRESS-STRAIN



SECANT MODULUS-STRAIN



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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	
DELIVERY FORM Pellets	
ADDITIVES Plasticizer	
SPECIAL CHARACTERISTICS Bio-Based, Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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