

RILSAN® BZM 30 0 TL

PA11, MHLR, 18-070, GF30

Rilsan® BZM 30 0 TL is a fiberglass reinforced polyamide 11 produced from a renewable source. This natural grade is designed for injection molding.

The percentage of **renewable carbon is 98%** (calculated value, based on ASTM D6866).

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	9 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	- / 7300	MPa	ISO 527-1/-2
Stress at Break	- / 117	MPa	ISO 527-1/-2
Strain at Break	- / 6	%	ISO 527-1/-2
Shore D Hardness, 15s	74 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	- / 89	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / 96	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 24	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 17	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	189 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	175 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	180 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	170 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
Burning Behav. at Thickness h	HB / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
Oxygen Index	22 / *	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	4 / -	-	IEC 60250
Relative Permittivity, 1MHz	4 / -	-	IEC 60250
Dissipation Factor, 100Hz	578 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	210 / -	E-4	IEC 60250
Volume Resistivity	- / 7E11	Ohm*m	IEC 60093

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RILSAN® BZM 30 0 TL

Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 45	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.4 / *	%	Sim. to ISO 62
Humidity Absorption	0.5 / *	%	Sim. to ISO 62
Density	1250 / 1250	kg/m ³	ISO 1183
%Bio-Based	98	-	ASTM D6866

MAIN APPLICATIONS:

- Quick connectors

PACKAGING:

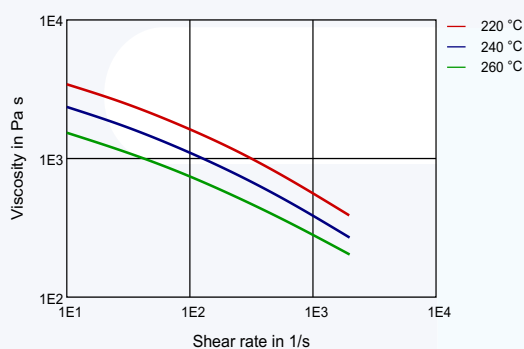
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

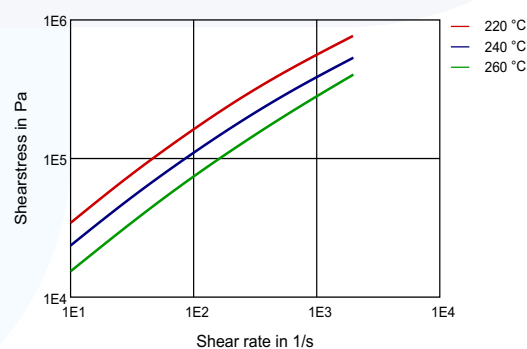
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

VISCOSITY-SHEAR RATE



SHEARSTRESS-SHEAR RATE



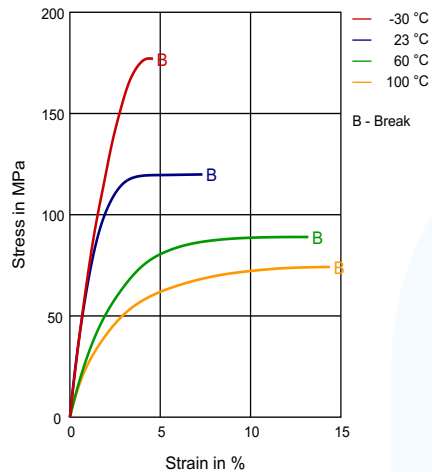
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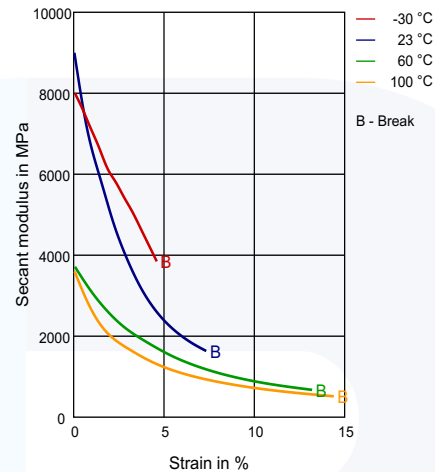
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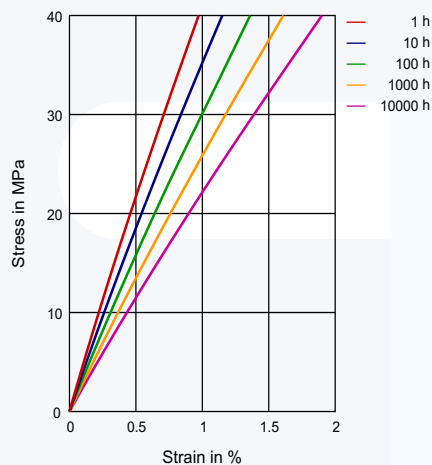
STRESS-STRAIN



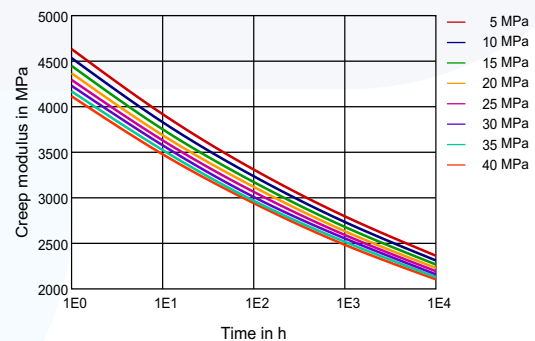
SECANT MODULUS-STRAIN



STRESS-STRAIN (ISOCHRONOUS) 23 °C



CREEP MODULUS-TIME 23 °C



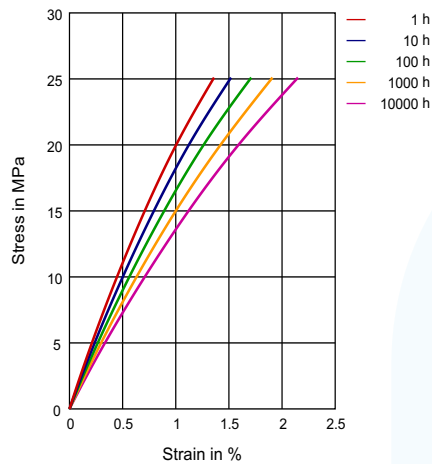
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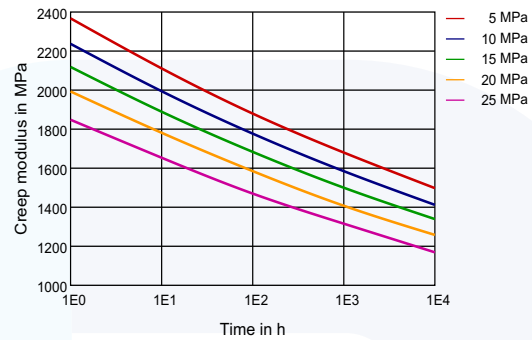
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RILSAN® BZM 30 0 TL

STRESS-STRAIN (ISOCHRONOUS) 80°C



CREEP MODULUS-TIME 80°C



Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 250°C / 270°C / 290°C.
- Mold temperature : 40 - 90°C

- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80-90°C.

PROCESSING

Injection Molding

DELIVERY FORM

Pellets

ADDITIVES

Release agent

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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Arkema Inc. – Technical Polymers

900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-america.com

RILSAN®
BY ARKEMA

Headquarters: Arkema France

420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com