

RILSAN® BZM 7 O TL

PA11, MHLR, 18-030, GF7

Rilsan® BZM 7 O TL is a fiberglass reinforced polyamide 11 produced from a renewable source.

This natural grade is designed for injection.

The percentage of **renewable carbon is 89%** (calculated value, based on ASTM D6866).

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	20 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
Molding Shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.0 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1800	MPa	ISO 527-1/-2
	- / 261000	psi	
Yield stress	- / 48	MPa	ISO 527-1/-2
	- / 6960	psi	
Yield strain	- / 7	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	71 / *	-	ISO 868
Charpy Notched Impact Strength, +23°C	- / 22	kJ/m²	ISO 179/1eA
	- / 10.5	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 12	kJ/m²	ISO 179/1eA
	- / 5.71	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	189 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1070 / 1070	kg/m³	ISO 1183
	1.07 / 1.07	g/cm³	
%Bio-Based	89	-	ASTM D6866

MAIN APPLICATIONS:

- Spring for quick connectors
- Outsoles

PACKAGING:

RILSAN® BZM 7 O TL

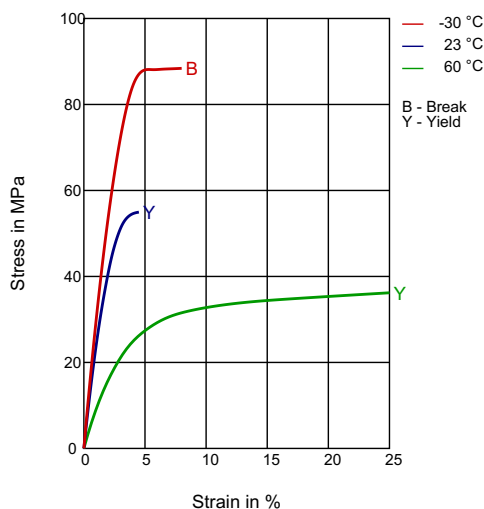
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

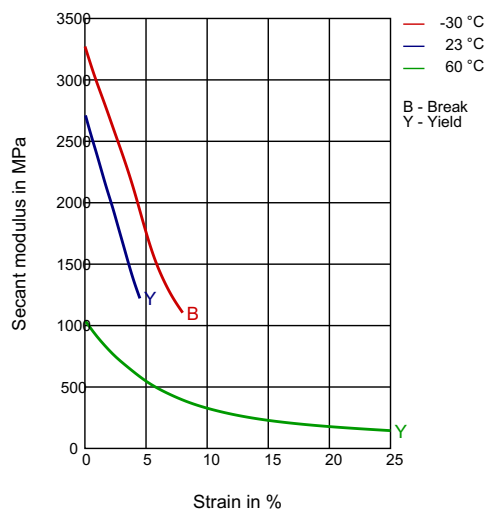
Two years from the delivery. For any use above this limit, please refer to our technical services.

DIAGRAMS

STRESS-STRAIN



SECANT MODULUS-STRAIN



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.

RILSAN® BZM 7 O TL

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	