

# RILSAN®

## BZM 8 O TL

PA11, MHLR, 18-030, GF8

**Rilsan® BZM 8 O TL** is a fiberglass reinforced polyamide 11 produced from a renewable source. This natural grade is designed for injection.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	18 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
Molding Shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.9 / *	%	ISO 294-4, 2577
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 2300	MPa	ISO 527-1/-2
	- / 334000	psi	
Stress at Break	- / 56	MPa	ISO 527-1/-2
	- / 8120	psi	
Strain at Break	- / 26	%	ISO 527-1/-2
Shore D Hardness, after 15 s	73 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / 93	kJ/m <sup>2</sup>	ISO 179/1eU
	- / 44.2	ftlb/in <sup>2</sup>	
Charpy Impact Strength, -30°C	- / 88	kJ/m <sup>2</sup>	ISO 179/1eU
	- / 41.9	ftlb/in <sup>2</sup>	
Charpy Notched Impact Strength, +23°C	- / 10	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 4.76	ftlb/in <sup>2</sup>	
Charpy Notched Impact Strength, -30°C	- / 5	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 2.38	ftlb/in <sup>2</sup>	
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	189 / *	°C	ISO 11357-1/-3
Coeff. of Linear Thermal Expansion, parallel	60 / *	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	-
	0.0630 / *	in	

# RILSAN® BZM 8 O TL

Burning Behav. at Thickness h	HB / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
	0.1260 / *	in	
Oxygen Index	22 / *	%	ISO 4589-1/-2
OTHER PROPERTIES			
Density	1070 / 1070	kg/m <sup>3</sup>	ISO 1183
	1.07 / 1.07	g/cm <sup>3</sup>	

## MAIN APPLICATIONS:

- Spring for quick connectors
- Outsoles

## PACKAGING:

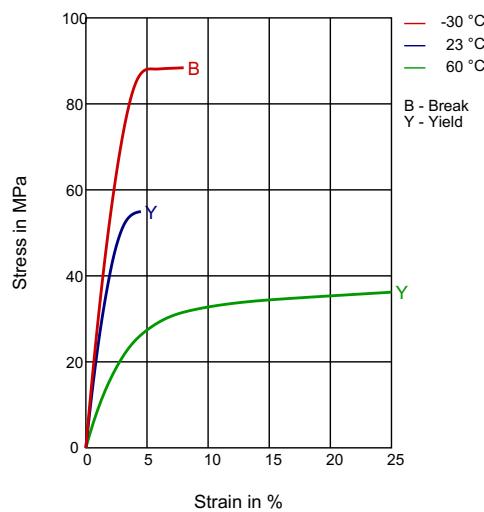
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

## SHELF LIFE:

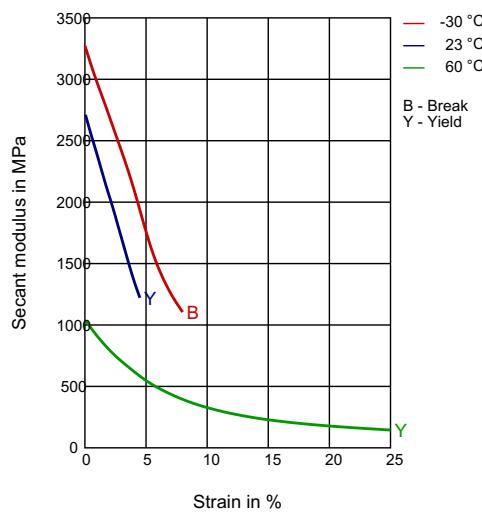
Two years from the delivery. For any use above this limit, please refer to our technical services.

## DIAGRAMS

### 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 8 O TL

<b>PROCESSING</b>	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 <a href="http://hpp.arkema.com">hpp.arkema.com</a>
Injection Molding	
<b>DELIVERY FORM</b>	
Pellets	
<b>ADDITIVES</b>	Arkema Inc. – High Performance Polymers  900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 <a href="http://hpp.arkema.com">hpp.arkema.com</a>
<b>SPECIAL CHARACTERISTICS</b>	
Bio-Based, Heat Stabilized, Light Stabilized	
<b>REGIONAL AVAILABILITY</b>	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.