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
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	18 / *	cm³/10 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
MECHANICAL PROPERTIES			
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/m²	ISO 179/1eU
	- / 44.2	ftlb/in²	
Charpy Impact Strength, -30°C	- / 88	kJ/m²	ISO 179/1eU
	- / 41.9	ftlb/in²	
Charpy Notched Impact Strength, +23°C	- / 10	kJ/m²	ISO 179/1eA
	- / 4.76	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 5	kJ/m²	ISO 179/1eA
	- / 2.38	ftlb/in²	
THERMAL PROPERTIES			
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	

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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/m³	ISO 1183
	1.07 / 1.07	g/cm³	

MAIN APPLICATIONS:

- Spring for quick connectors
- Outsoles

PACKAGING:

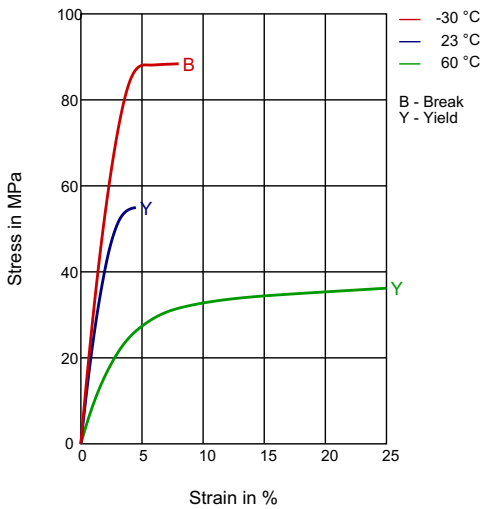
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

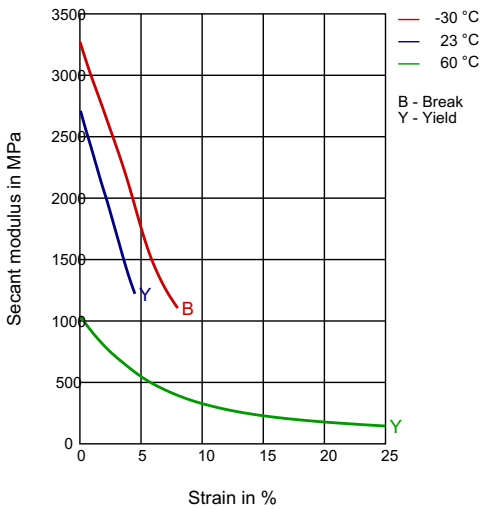
Two years from the delivery. For any use above this limit, please refer to our technical services.

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.

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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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