

RILSAN® BUM 30 O

PA11, MR, 18-020, GB30

Rilsan® BUM 30 O resin is a glass bead reinforced polyamide 11 produced from a renewable source. The incorporation of glass beads yields a virtually isotropic reinforced product.

This natural grade dedicated to injection is specially designed for drinking water application: WRAS (UK).

The percentage of renewable carbon according to ASTM D 6866 (calculated) is >97%.

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	
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1850	MPa	ISO 527-1/-2
Stress at Break	- /	psi	ISO 527-1/-2
	268000	MPa	
	- / 4500	psi	
Strain at Break	- / 40	%	ISO 527-1/-2
Shore D Hardness	71 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / 96	kJ/m²	ISO 179/1eU
	- / 45.7	ftlb/in²	
Charpy Impact Strength, -30°C	- / 96	kJ/m²	ISO 179/1eU
	- / 45.7	ftlb/in²	
Charpy Notched Impact Strength, +23°C	- / 6	kJ/m²	ISO 179/1eA
	- / 2.85	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
Temp. of Deflection Under Load, 1.80 MPa	60 / *	°C	ISO 75-1/-2
	140 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	165 / *	°C	ISO 75-1/-2
	329 / *	°F	
Vicat Softening Temperature, 50°C/h 50N	165 / *	°C	ISO 306
	329 / *	°F	

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Coeff. of Linear Thermal Expansion, parallel	70 / *	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	
Burning Behav. at Thickness h	HB / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
	0.1260 / *	in	
ELECTRICAL PROPERTIES			
Volume Resistivity	- / 1E12	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 40	kV/mm	IEC 60243-1
	- / 1020	kV/in	
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.3 / *	%	Sim. to ISO 62
Density	1230 / 1230	kg/m³	ISO 1183
	1.23 / 1.23	g/cm³	
%Bio-Based	97	-	ASTM D6866

MAIN APPLICATIONS:

- Drinking water applications

PACKAGING:

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

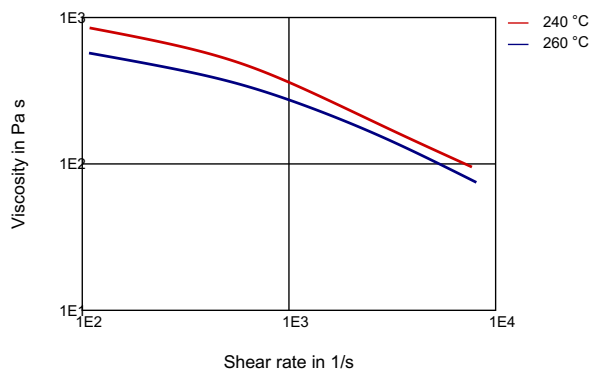
SHELF LIFE:

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

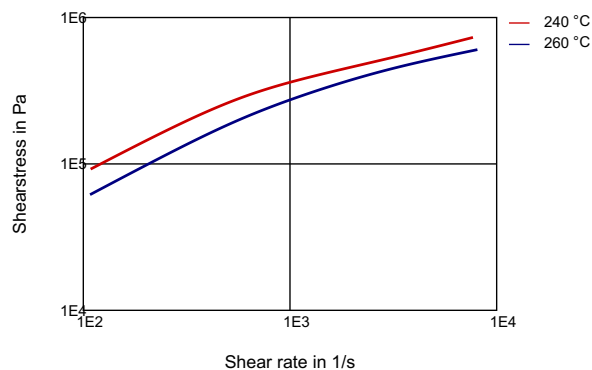
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DIAGRAMS

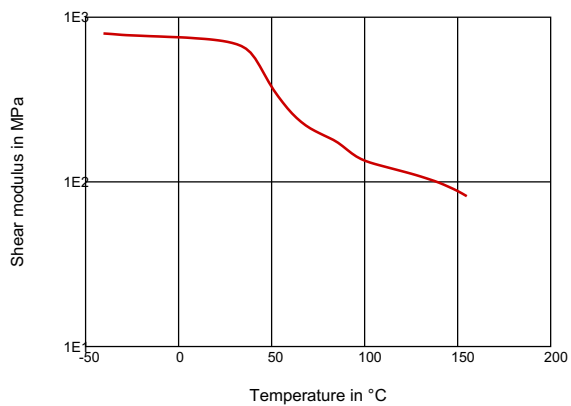
VISCOSITY-SHEAR RATE



SHEARSTRESS-SHEAR RATE



DYNAMIC SHEAR MODULUS-TEMPERATURE



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	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	