

# 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).

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	20 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
Molding Shrinkage, parallel	1.6 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.4 / *	%	ISO 294-4, 2577
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 1850	MPa	ISO 527-1/-2
	- / 268000	psi	
Stress at Break	- / 31	MPa	ISO 527-1/-2
	- / 4500	psi	
Strain at Break	- / 40	%	ISO 527-1/-2
Shore D Hardness, after 15 s	71 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / 96	kJ/m <sup>2</sup>	ISO 179/1eU
	- / 45.7	ftlb/in <sup>2</sup>	
Charpy Impact Strength, -30°C	- / 96	kJ/m <sup>2</sup>	ISO 179/1eU
	- / 45.7	ftlb/in <sup>2</sup>	
Charpy Notched Impact Strength, +23°C	- / 6	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 2.85	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
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	

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 Source: automatically generated TDS from Material Database on 12-08-2024

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Vicat Softening Temperature, 50°C/h 50N	165 / *	°C	ISO 306
	329 / *	°F	
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	
<b>ELECTRICAL PROPERTIES</b>			
Volume Resistivity	- / 1E12	Ohm* m	IEC 62631-3-1
Surface Resistivity	* / 1E14	Ohm	IEC 62631-3-2
Dielectric (Electric) Strength	- / 40	kV/mm	IEC 60243-1
	- / 1020	kV/in	
Comparative Tracking Index	* / 600	-	IEC 60112
<b>OTHER PROPERTIES</b>			
Water Absorption, 23°C, immersion, equilibrium	1.3 / *	%	ISO 62
Density	1230 / 1230	kg/m <sup>3</sup>	ISO 1183
	1.23 / 1.23	g/cm <sup>3</sup>	

## MAIN APPLICATIONS:

- Drinking water applications

## PACKAGING:

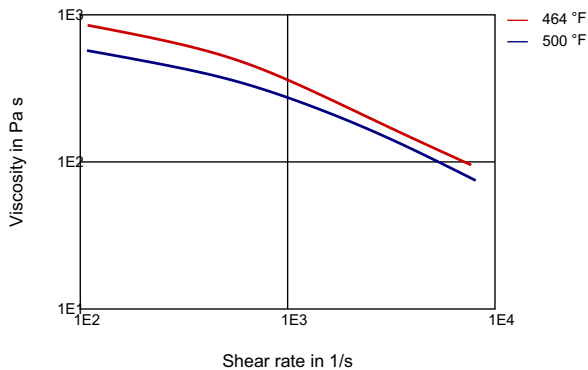
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

## SHELF LIFE:

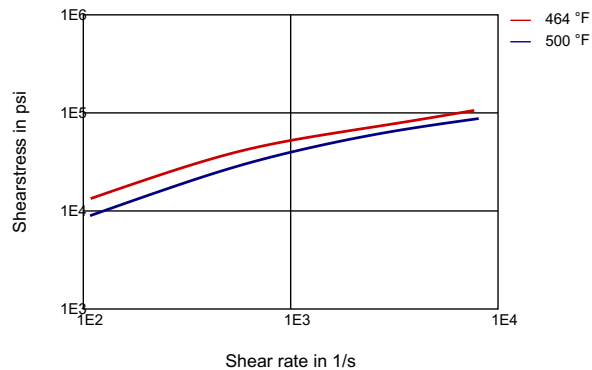
Two years from the delivery. For any use above this limit, please refer to our technical services.

## DIAGRAMS

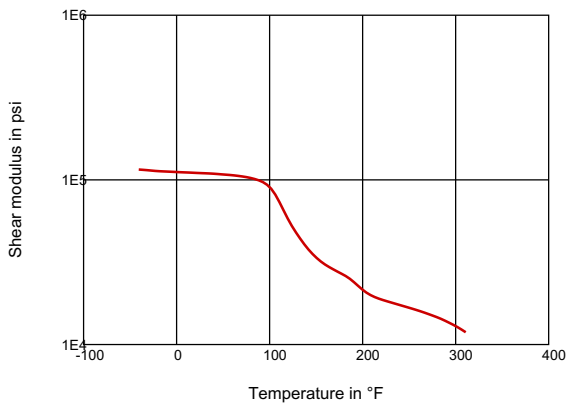
### VISCOSITY-SHEAR RATE



### SHEARSTRESS-SHEAR RATE



### DYN. 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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<b>PROCESSING</b> Injection Molding	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
<b>DELIVERY FORM</b> Pellets	
<b>ADDITIVES</b> Release agent	
<b>SPECIAL CHARACTERISTICS</b> Bio-Based	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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