

# RILSAN®

## BSR 30

PA11, MHLR, 11-140, CF 30

**Rilsan® BSR 30 resin** is a polyamide 11 produced from a renewable source. Light and rigid, this grade is carbon fiber reinforced and designed for injection molding.

According to ASTM D6866, the biobased carbon content is measured at 62%.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	12 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
Molding Shrinkage, parallel	0 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 16300	MPa	ISO 527-1/-2
	- / 2.36E6	psi	
Stress at Break	- / 167	MPa	ISO 527-1/-2
	- / 24200	psi	
Strain at Break	- / 5	%	ISO 527-1/-2
Charpy Notched Impact Strength, +23°C	- / 20	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 9.51	ftlb/in <sup>2</sup>	
Charpy Notched Impact Strength, -30°C	- / 12	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 5.71	ftlb/in <sup>2</sup>	
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	188 / *	°C	ISO 11357-1/-3
<b>OTHER PROPERTIES</b>			
%Bio-Based	62	-	ASTM D6866
Density	1150 / 1150	kg/m <sup>3</sup>	ISO 1183
	1.15 / 1.15	g/cm <sup>3</sup>	

### MAIN APPLICATIONS:

- Quick connectors

### PACKAGING:

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

### SHELF LIFE:

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SDC/11-2018  
Source: automatically generated TDS from Material Database on 20-02-2024

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

### Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 260°C / 275°C / 290°C.
- Mold temperature : 70 - 100°C
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80-90°C.

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

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