

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
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	12 / *	cm ³ /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
MECHANICAL PROPERTIES			
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 ²	ISO 179/1eA
	- / 9.51	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 12	kJ/m ²	ISO 179/1eA
	- / 5.71	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	188 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
%Bio-Based	62	-	ASTM D6866
Density	1150 / 1150	kg/m ³	ISO 1183
	1.15 / 1.15	g/cm ³	

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

RILSAN®

BSR 30

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.

PROCESSING 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 Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
DELIVERY FORM Pellets	
SPECIAL CHARACTERISTICS Bio-Based, Conductive	
REGIONAL AVAILABILITY 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.