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 <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
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/m²	ISO 179/1eA
	- / 9.51	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 12	kJ/m²	ISO 179/1eA
	- / 5.71	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	188 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
%Bio-Based	62	-	ASTM D6866
Density	1150 / 1150	kg/m³	ISO 1183
	1.15 / 1.15	g/cm³	

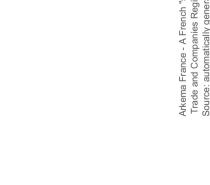
## **MAIN APPLICATIONS:**

· Quick connectors

## **PACKAGING:**

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

## SHELF LIFE:



**ARKEMA** 

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





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	Headquarters:	
Injection Molding	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.

