

RILSAN® BESN BLACK P210 TL

PA11-HIP, EHL, 22-007

Rilsan® BESN BLACK P210 TL resin is a polyamide 11 produced from a renewable source. This black grade is plasticized and designed for extrusion.

Rilsan® BESN BLACK P210 TL resin falls into the PA11-PHY category according to DIN 73378 and fulfills all specifications according to DIN 74324, ISO 7628, NFR 12632, and SAEJ844.

The biobased carbon content of Rilsan® BESN BLACK P210 TL resin is measured at 89% according to ASTM D6866.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	- / 600	MPa	ISO 527-1/-2
	- / 87000	psi	
Yield Stress	- / 32	MPa	ISO 527-1/-2
	- / 4640	psi	
Yield Strain	- / 31	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 76	kJ/m ²	ISO 179/1eA
	- / 36.2	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m ²	ISO 179/1eA
	- / 4.76	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	184 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	45 / *	°C	ISO 75-1/-2
	113 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	110 / *	°C	ISO 75-1/-2
	230 / *	°F	
OTHER PROPERTIES			
%Bio-Based	89	-	ASTM D6866
Density	1030 / 1030	kg/m ³	ISO 1183
	1.03 / 1.03	g/cm ³	

MAIN APPLICATIONS:

- Fluid transportation
- Tubing for use in motor vehicle

PACKAGING:

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

RILSAN® BESN BLACK P210 TL

SHELF LIFE:

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) : 230°C / 250°C / 280°C.

- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 80-90°C.

PROCESSING Profile Extrusion, Other Extrusion	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
DELIVERY FORM Pellets	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
ADDITIVES Lubricants, Plasticizer	
SPECIAL CHARACTERISTICS Bio-Based, Heat Stabilized, Light Stabilized	
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.