

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-PHLY category according to DIN 73378 and fulfills all specifications according to DIN 74324, ISO 7628, NFR 12632, and SAEJ844.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is **>88%**.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	- / 600	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	87000 - / 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/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 76	kJ/m²	ISO 179/1eA
	- / 36.2	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 10	kJ/m²	ISO 179/1eA
	- / 4.76	ftlb/in²	
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			
Density	1030 / 1030	kg/m³	ISO 1183
	1.03 / 1.03	g/cm³	
%Bio-Based	88	-	ASTM D6866

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.

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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	
DELIVERY FORM Pellets	
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	