

# RILSAN®

## BESN BLACK P40 TL

PA11-P, EHL, 22-003

**Rilsan® BESN BLACK P40 TL resin** is a polyamide 11 produced from a renewable source. This black grade is plasticized and designed for extrusion.

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

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	- / 350	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	50800	MPa	ISO 527-1/-2
	- / 27		
	- / 3920	psi	
Yield strain	- / 41	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness	61 / *	-	ISO 868
Charpy Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 7	kJ/m²	ISO 179/1eA
	- / 3.33	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	182 / *	°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	130 / *	°C	ISO 75-1/-2
	266 / *	°F	
OTHER PROPERTIES			
Water Absorption	1.6 / *	%	Sim. to ISO 62
Density	1040 / 1040	kg/m³	ISO 1183
	1.04 / 1.04	g/cm³	
%Bio-Based	88	-	ASTM D6866

### MAIN APPLICATIONS:

- Fluid transportation
- Air brake line
- Fuel line
- Tubing for use in motor vehicle

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## BESN BLACK P40 TL

### PACKAGING:

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

### 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) : 4-6 hours at 80-90°C.

<b>PROCESSING</b> Profile Extrusion, Other Extrusion	
<b>DELIVERY FORM</b> Pellets	
<b>ADDITIVES</b> Lubricants, Plasticizer	
<b>SPECIAL CHARACTERISTICS</b> Bio-Based, Heat Stabilized, Light Stabilized	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	