

RILSAN®

BESNO P40 W6 TL

PA11-P, EFHL, 22-005

Rilsan® BESNO P40 W6 TL resin is a polyamide 11 produced from a renewable source. This grade is plasticized and designed for extrusion.

This grade is classified as Halogen Free Flame Retardant (HFFR).

The percentage of renewable carbon according to ASTM D 6866 (calculated) is >79%.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	- / 540	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	78300 / 724	MPa	ISO 527-1/-2
	- / 3480	psi	
Yield strain	- / 41	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
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	- / 25	kJ/m²	ISO 179/1eA
	- / 11.9	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 7	kJ/m²	ISO 179/1eA
	- / 3.33	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	180 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	47 / *	°C	ISO 75-1/-2
	117 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	130 / *	°C	ISO 75-1/-2
	266 / *	°F	
Burning Behav. at 1.5 mm Nominal Thickness	V-2 / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
	0.0630 / *	in	
Yellow Card available	yes / *	-	-
OTHER PROPERTIES			
Density	1110 / 1110	kg/m³	ISO 1183
	1.11 / 1.11	g/cm³	

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%Bio-Based

79

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ASTM D6866

MAIN APPLICATIONS:

- Fluid transportation

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) : 210°C / 220°C / 230°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	
Plasticizer	
SPECIAL CHARACTERISTICS	
Bio-Based, Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	