

TECHNICAL DATA SHEET

RILSAN® BESNO P40 W6 TL

POLYAMIDE 11 PELLET

RILSAN® BESNO P40 W6 TL is a polyamide 11 compound. It is produced from a renewable & sustainable source (castor oil). This natural color plasticized grade is designed for tube extrusion. It is classified as Halogen Free Flame Retardant (HFFR).

Designation : ISO 16396 - PA11-P, EFHL, C22-005

TYPE

PA11-P

MAIN APPLICATIONS

- Hoses & Tubes
- Industry - Distribution

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Flame retarding agent
- Heat Stabilized
- Light Stabilized
- Plasticizer

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 470	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	- / 540	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 41	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 24	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50	%	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 25	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 7	kJ/m2	ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	- / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break		ISO 179 1eU

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Heat deflection temperature, 0.45 MPa	130	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	47	°C	ISO 75-1/-2
Melting temperature, 10°C/min	180	°C	ISO 11357-1/-3
Yellow card available	YES		
Burning behavior, minimum thickness 1.5 mm	V-2		IEC 60695-11-10

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Specific gravity, 23°C (73°F)	1.11	g/cm ³	ISO 1183-1

PACKAGING

Available packaging:

- 25 kg / 55 lb bags

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based
- Halogen Free Flame Retardant (HFFR)
- Low oligomers