

RILSAN® BESNO MED

PA11,EHL,22-010

Rilsan® BESNO MED resin is a polyamide 11 produced from a renewable source. This grade dedicated to extrusion offers the highest quality and it is specifically designed to meet the stringent requirements of the medical applications such as minimally invasive devices.

Upon request, letters regarding USP Class VI compliance can be provided.

The percentage of renewable carbon according to ASTM D 6866 (calculated) is 100%.

Main applications:

- Medical tubing.
- Catheters.

Packaging:

This grade is delivered dried in sealed packaging (44 lb bags) ready to be processed.

Shelf Life:

Two years from the delivery. For any use above this limit, please refer to our technical services.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
Tensile Modulus	- / 174000	psi	ISO 527-1/-2
Yield stress	- / 5800	psi	ISO 527-1/-2
Yield strain	- / 6	%	ISO 527-1/-2
Nominal strain at break	- / >50	%	ISO 527-1/-2
Charpy impact strength, +23°C	- / N	ftlb/in ²	ISO 179/1eU
Charpy impact strength, -30°C	- / N	ftlb/in ²	ISO 179/1eU
Charpy notched impact strength, +23°C	- / 7.14	ftlb/in ²	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 6.18	ftlb/in ²	ISO 179/1eA
Melting temperature, 10°C/min	367 / *	°F	ISO 11357-1/-3
Density	1.02 / 1.02	g/cm ³	ISO 1183
Shore D hardness, 15s	71 / *	-	ISO 7619-1

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 65-80°C.

Processing

Profile Extrusion, Other Extrusion

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Chemical Media Resistance

Acids

- ✓ Acetic Acid (5% by mass) (23°C)
- ✓ Citric Acid solution (10% by mass) (23°C)
- ✓ Lactic Acid (10% by mass) (23°C)
- ⊘ Hydrochloric Acid (36% by mass) (23°C)
- ⊘ Nitric Acid (40% by mass) (23°C)
- ⊘ Sulfuric Acid (38% by mass) (23°C)
- ✓ Sulfuric Acid (5% by mass) (23°C)
- ⊘ Chromic Acid solution (40% by mass) (23°C)

Bases

- ✓ Sodium Hydroxide solution (35% by mass) (23°C)
- ✓ Sodium Hydroxide solution (1% by mass) (23°C)
- ✓ Ammonium Hydroxide solution (10% by mass) (23°C)

Alcohols

- ✓ Methanol (23°C)
- ✓ Ethanol (23°C)

Hydrocarbons

- ✓ n-Hexane (23°C)
- ✓ Toluene (23°C)

Ketones

- ✓ Acetone (23°C)

Mineral oils

- ✓ SAE 10W40 multigrade motor oil (23°C)
- ✓ SAE 10W40 multigrade motor oil (130°C)
- ✓ SAE 80/90 hypoid-gear oil (130°C)
- ✓ Insulating Oil (23°C)

Standard Fuels

RILSAN® BESNO MED

- ✓ ISO 1817 Liquid 1 (60°C)
- ✓ ISO 1817 Liquid 2 (60°C)
- ✓ ISO 1817 Liquid 3 (60°C)
- ✓ ISO 1817 Liquid 4 (60°C)
- ✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)
- ✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)
- ✓ Diesel fuel (pref. ISO 1817 Liquid F) (23°C)
- ✓ Diesel fuel (pref. ISO 1817 Liquid F) (90°C)
- ✓ Diesel fuel (pref. ISO 1817 Liquid F) (>90°C)

Salt solutions

- ✓ Sodium Chloride solution (10% by mass) (23°C)
- ✓ Sodium Hypochlorite solution (10% by mass) (23°C)
- ✓ Zinc Chloride solution (50% by mass) (23°C)

Other

- ✓ Ethyl Acetate (23°C)
- ✓ Hydrogen peroxide (23°C)
- ✓ DOT No. 4 Brake fluid (130°C)
- ✓ Ethylene Glycol (50% by mass) in water (108°C)

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