RILSAN® MED

TECHNICAL DATA SHEET

RILSAN® BESVO A MED

POLYAMIDE 11 PELLET

RILSAN® BESVO A MED is a polyamide 11 resin. It is produced from a renewable & sustainable source (castor oil). This natural color grade is designed for tube extrusion. It contains a negligible amount of oligomers and is approved in medical applications. Upon request, letters regarding USP Class VI compliance can be provided.

Designation : ISO 16396 - PA11, E, C22-010

TYPE

PA11

MAIN APPLICATIONS

- Health - Reusable - Others
- Health - Consumable - Others
- Health - Consumable - Catheters

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Shrinkage, Parallel (t+24h)	1.1	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.1	%	ISO 294-4
Melt volume flow rate (MVR), 235°C / 10kg (455°F / 22 lb)	6	cm^3/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 1100	MPa	ISO 178
Tensile modulus, 23°C (73°F)	- / 1180	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F)	- / 36	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F)	- / 5	%	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	- / > 50	%	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 15	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 13	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
Hardness, shore D, 15 s	- / 71		ISO 868
Stress at break, 23°C (73°F)	- / 52	MPa	ISO 527-1/-2

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

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THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	186	°C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Dielectric Strength, 23°C (73,4°F)	- / 30	kV/mm	IEC 60243-1

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

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Water absorption, At equilibrium at 23°C (73°F) / Water immersion	1.9	%	ISO 62
Density, 23°C (73°F)	1.03	g/cm³	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:

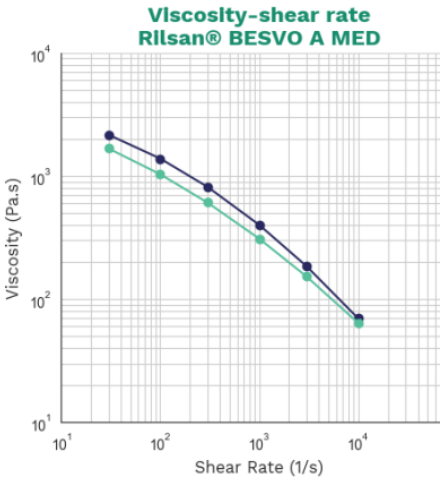
- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

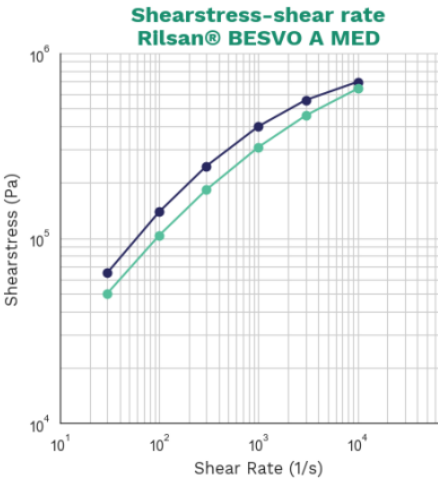
SPECIAL CHARACTERISTICS

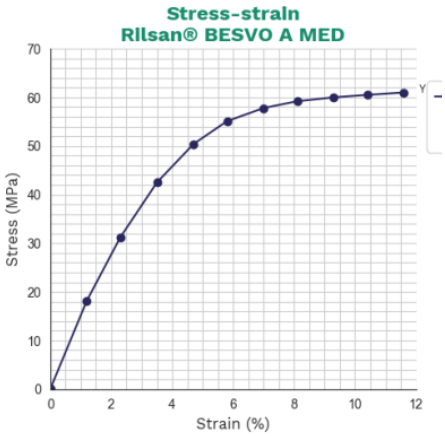
- Bio-based
- Low oligomers

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DIAGRAMS







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