+135-3858-6433 (GuangDong)
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RILSAN® MED

TECHNICAL DATA SHEET

RILSAN® BESNO MED

POLYAMIDE 11 PELLET

RILSAN® BESNO MED is a polyamide 11 resin. It is produced from a renewable & sustainable source (castor oil). This natural grade is designed for tube extrusion 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 - Consumable - Catheters

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 1130	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	- / 1200	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 6	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 40	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)	- / 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	kJ/m2	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	- / No Break	kJ/m2	ISO 179 1eU
Hardness, Shore D, 15 s	- / 71		ISO 868

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

THERMAL PROPERTIES

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

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Specific gravity, 23°C (73°F)	1.02	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 20 kg / 44 lb bags

ARKEMA

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RILSAN® BESNO MED

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