

TECHNICAL DATA SHEET

RILSAN® 8020

COPOLYAMIDE PELLET

RILSAN® 8020 is a translucent flexible copolyamide based on renewable resources and without plasticizer. This grade is specially designed for medical applications.

TYPE

PA*

MAIN APPLICATIONS

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

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
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
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 21	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 24	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1150	MPa	ISO 178
Charpy notched impact strength, -30°C (-22°F)	- / No Break		ISO 179 1eA

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

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	172	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Bio-based carbon content, Measured	100	%	ASTM D6866
Water absorption, 23°C (73°F), immersion, equilibrium	0.8	%	ISO 62
Specific gravity, 23°C (73°F)	1.02	g/cm³	ISO 1183-1

PACKAGING

- Available packaging:
- 25 kg / 55 lb bags

RILSAN® 8020

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: 260°C / 280°C / 300°C (500°F / 535°F / 570°F)
- Typical mold temperature - Injection molding: 20-80°C (70-175°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Bio-based