

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.

DESIGNATION

PA*

MAIN APPLICATIONS

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

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

MECHANICAL PROPERTIES

| PROPERTIES | DRY / COND VALUE* | 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: Conditioned.

THERMAL PROPERTIES

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

OTHER PROPERTIES

| PROPERTIES | VALUE | 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/cm ³ | ISO 1183-1 |

PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. 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

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