

# RILSAMID® AMNO MED

Rilsamid® AMNO MED is a thermoplastic polyamide 12. This grade dedicated to injection 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.

## MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
Nature & Designation	PA12, M, 12-010		ISO 1874
Density	1.01	g/cm <sup>3</sup>	ISO 1183
Melting Point	180	°C	ISO 11357
Melt Volume Index (235°C, 2.16 kg)	57	cm <sup>3</sup> /10 min	ISO 11357
Hardness (*) Instantaneous After 15 s	74 69	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Yield Strain at Yield Stress at Break Strain at Break	37 8 62 >200	MPa % MPa %	ISO 527
Tensile Modulus (*)	1100	MPa	ISO 178
Flexural Modulus (*)	920	MPa	ISO 178
Charpy Impact (*) Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	No break No break 5 6	kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	ISO 179

(\*) Samples conditioned 15 days at 23°C - 50 % R.H.

## MAIN APPLICATIONS

- Medical molded components such as needle fittings for syringes.
- Minimally invasive devices.

## PROCESSING CONDITIONS

Conditions	Typical values
<b>Injection</b> Melt Temperature (Min / Recommended / Max)	190°C / 210°C / 230°C
<b>Mold</b> Temperature	25 – 60°C
<b>Drying (only necessary for bags opened for more than two hours)</b> Time Temperature	4 - 6 hours 80 - 90°C

## PACKAGING

This grade is delivered dried in sealed packaging (20 kg bags) ready to be processed.

## SHELF LIFE

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

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See Safety Data Sheet for Health & Safety Considerations.