

Rilsamid® AESNO MED
PA12

ARKEMA

ISO 16396 - PA12, EG, C22-010

Rilsamid® AESNO MED is a rigid polyamide 12 with high viscosity designed for tube extrusion. This grade, dedicated to extrusion, 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 Application:

- Medical Tubing.
- Catheters.

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.

| Rheological properties | dry / cond | Unit | Test Standard |
|----------------------------|------------|-----------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 8 / * | cm³/10min | ISO 1133 |
| Temperature | 235 / * | °C | - |
| Load | 5 / * | kg | - |

| Mechanical Properties | dry / cond | Unit | Test Standard |
|---|-------------|-------|---------------|
| ISO Data | | | |
| Tensile Modulus | 1500 / 1440 | MPa | ISO 527 |
| Yield stress | 50 / 43 | MPa | ISO 527 |
| Yield strain | 5 / 5 | % | ISO 527 |
| Nominal strain at break | >50 / >50 | % | ISO 527 |
| Notched Impact Strength (Charpy), +23°C | - / 11 | kJ/m² | ISO 179/1eA |
| Notched Impact Strength (Charpy), -30°C | - / 6 | kJ/m² | ISO 179/1eA |
| Puncture - maximum force, -30°C | - / 4800 | N | ISO 6603-2 |
| Puncture energy, -30°C | - / 60 | J | ISO 6603-2 |

| Thermal Properties | dry / cond | Unit | Test Standard |
|---|------------|-------|----------------|
| ISO Data | | | |
| Melting Temperature (10°C/min) | 180 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 55 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 135 / * | °C | ISO 75-1/-2 |
| Vicat softening temperature, 50°C/h 50N | 142 / * | °C | ISO 306 |
| Coeff. of Linear Therm. Expansion, parallel | 100 / * | E-6/K | ISO 11359-1/-2 |

| Electrical Properties | dry / cond | Unit | Test Standard |
|----------------------------|------------|-------|---------------|
| ISO Data | | | |
| Volume Resistivity | - / 1E12 | Ohm*m | IEC 62631-3-1 |
| Surface Resistivity | * / 1E14 | Ohm | IEC 62631-3-2 |
| Electric Strength | - / 30 | kV/mm | IEC 60243-1 |
| Comparative tracking index | - / 600 | - | IEC 60112 |

| Other Properties | dry / cond | Unit | Test Standard |
|------------------|------------|-------|----------------|
| ISO Data | | | |
| Water Absorption | 1.6 / * | % | Sim. to ISO 62 |
| Density | 1010 / - | kg/m³ | ISO 1183 |

Characteristics

Processing

Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Certifications

Medical, US Pharmacopeia Class VI Approved

Delivery form

Pellets

Profile extrusion

Processing conditions, Extrusion:

- Typical melt temperature (Min / Recommended / Max) : 190°C / 210°C / 230°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 65 - 80°C.

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.**

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Important: irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.