

Product Texts

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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	8 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1500 / 1440	MPa	ISO 527
^[C] Yield stress	50 / 43	MPa	ISO 527
^[C] Yield strain	5 / 5	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy notched impact strength, +23°C	- / 11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 6	kJ/m ²	ISO 179/1eA
^[C] Puncture - maximum force, -30°C	- / 4800	N	ISO 6603-2
^[C] Puncture energy, -30°C	- / 60	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	180 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	142 / *	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	- / 1E12	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2

Rilsamid® AESNO MED

PA12

ARKEMA

^[C] Electric strength	- / 30	kV/mm	IEC 60243-1
^[C] Comparative tracking index	- / 600	-	IEC 60112

^[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.6 / *	%	Sim. to ISO 62
^[C] Density	1010 / -	kg/m ³	ISO 1183

^[C]: CAMPUS**Characteristics****Processing**

Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Certifications

Medical Grade, US Pharmacopeia Class VI Approved

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information**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.