

# RILSAMID®

## AESNO MED

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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	8 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	1500 / 1440	MPa	ISO 527-1/-2
	218000 / 209000	psi	
Yield Stress	50 / 43	MPa	ISO 527-1/-2
	7250 / 6240	psi	
Yield Strain	5 / 5	%	ISO 527-1/-2
Nominal Strain at Break	>50 / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 11	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 5.23	ftlb/in <sup>2</sup>	
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 2.85	ftlb/in <sup>2</sup>	
Puncture - Maximum Force, -30°C	- / 4800	N	ISO 6603-2
Puncture Energy, -30°C	- / 60	J	ISO 6603-2
<b>THERMAL PROPERTIES</b>			
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
	131 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
	275 / *	°F	
Vicat Softening Temperature, 50°C/h 50N	142 / *	°C	ISO 306
	288 / *	°F	

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 Source: automatically generated TDS from Material Database on 12-08-2024

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Coeff. of Linear Thermal Expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
<b>ELECTRICAL PROPERTIES</b>			
Volume Resistivity	- / 1E12	Ohm* m	IEC 62631-3-1
Surface Resistivity	* / 1E14	Ohm	IEC 62631-3-2
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
	- / 762	kV/in	
Comparative Tracking Index	- / 600	-	IEC 60112
<b>OTHER PROPERTIES</b>			
Water Absorption, 23°C, immersion, equilibrium	1.6 / *	%	ISO 62
Density	1010 / -	kg/m <sup>3</sup>	ISO 1183
	1.01 / -	g/cm <sup>3</sup>	

### 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 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.

<b>PROCESSING</b>  Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion	Headquarters:  Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
<b>DELIVERY FORM</b>  Pellets	Arkema Inc. – High Performance Polymers  900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
<b>REGIONAL AVAILABILITY</b>  North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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