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
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	8 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
MECHANICAL PROPERTIES			
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/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 11	kJ/m²	ISO 179/1eA
	- / 5.23	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m²	ISO 179/1eA
	- / 2.85	ftlb/in²	
Puncture - Maximum Force, -30°C	- / 4800	N	ISO 6603-2
Puncture Energy, -30°C	- / 60	J	ISO 6603-2
THERMAL PROPERTIES			
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	

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Vicat Softening Temperature, 50°C/h 50N	142 / *	°C	ISO 306
	288 / *	°F	
Coeff. of Linear Thermal Expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
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
OTHER PROPERTIES			
Water Absorption, 23°C, immersion, equilibrium	1.6 / *	%	ISO 62
Density	1010 / -	kg/m³	ISO 1183
	1.01 / -	g/cm³	

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.

PROCESSING
Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

DELIVERY FORM
Pellets

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

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