

RILSAMID® AESNO TL

ISO 16396 - PA12, EGHL, C22-010

Rilsamid® AESNO TL resin is a rigid polyamide with high viscosity.
This natural grade is designed for tube extrusion.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	8 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	1500 / 1440	MPa	ISO 527-1/-2
Yield stress	50 / 43	MPa	ISO 527-1/-2
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 ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 11	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m ²	ISO 179/1eA
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
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 Thermal Expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
Yellow Card available	yes / *	-	-
ELECTRICAL PROPERTIES			
Volume Resistivity	- / 1E12	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			

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RILSAMID[®] AESNO TL

Water Absorption	1.6 / *	%	Sim. to ISO 62
Density	1010 / 1010	kg/m ³	ISO 1183

MAIN APPLICATION:

Tubes for automotive industry.

PACKAGING:

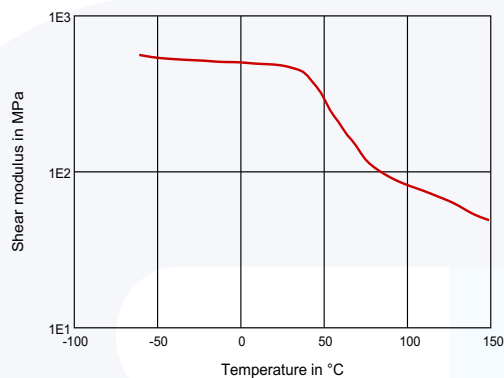
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

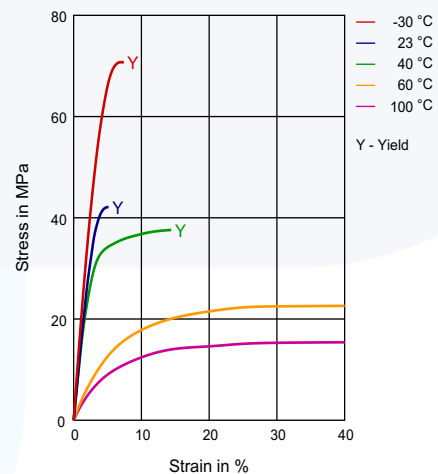
Two years from the date of delivery. for any use above this limit, please refer to our technical services.

DIAGRAMS

DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



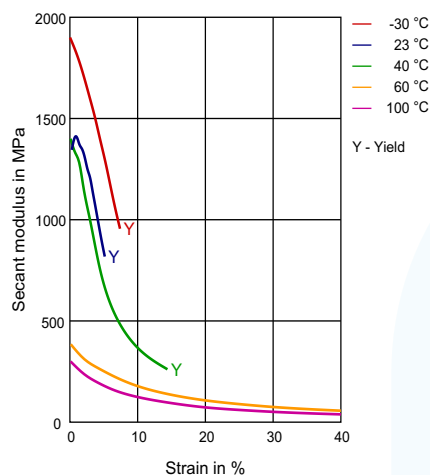
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SECANT MODULUS-STRAIN



Processing conditions, Extrusion:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 240°C / 270°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80°C.

PROCESSING

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

DELIVERY FORM

Pellets

ADDITIVES

Lubricants

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

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

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