

RILSAMID® AESNO P302 TL

ISO 16396 - PA12-HIP, EGHL, C22-004

Rilsamid® AESNO P302 TL resin is a natural polyamide.

This grade is plasticized and designed for tube extrusion.

Rilsamid® AESNO P302 TL resin falls into the PA12-HIPHL category according to DIN 73378.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	13 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	475 / 430	MPa	ISO 527-1/-2
Yield stress	28 / 24	MPa	ISO 527-1/-2
Yield strain	24 / 24	%	ISO 527-1/-2
Nominal Strain at Break	> 50 / > 50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	46 / No Break	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	4 / 6	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	174 / *	°C	ISO 11357-1/-3
Coeff. of Linear Thermal Expansion, parallel	150 / *	E-6/K	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Volume Resistivity	1E12 / 1E12	Ohm*m	IEC 60093
Surface Resistivity	* / 7E13	Ohm	IEC 60093
Dielectric (Electric) Strength	41 / 41	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.2 / *	%	Sim. to ISO 62
Density	1030 / 1030	kg/m ³	ISO 1183

MAIN APPLICATIONS:

Air brake.

Tubing for use in motor vehicles

PACKAGING:

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

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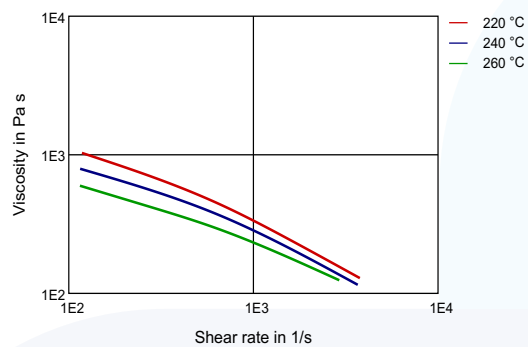
RILSAMID® AESNO P302 TL

SHELF LIFE:

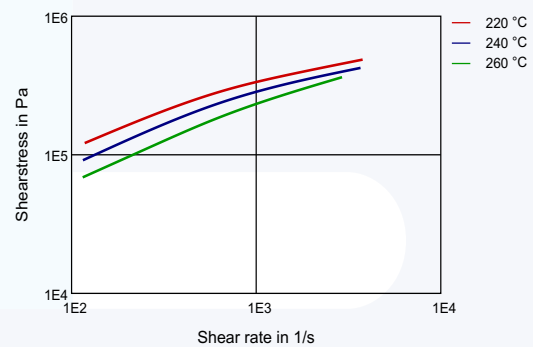
Two years from the date of delivery. for any use above this limit, please refer to our technical services.

DIAGRAMS

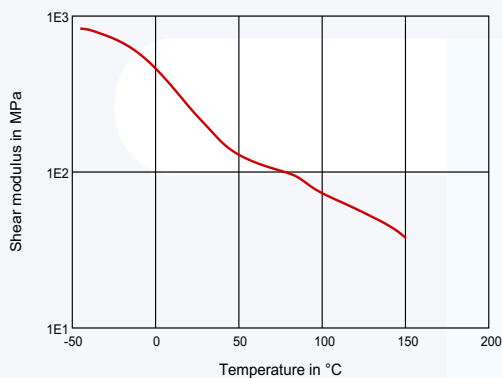
VISCOSITY-SHEAR RATE



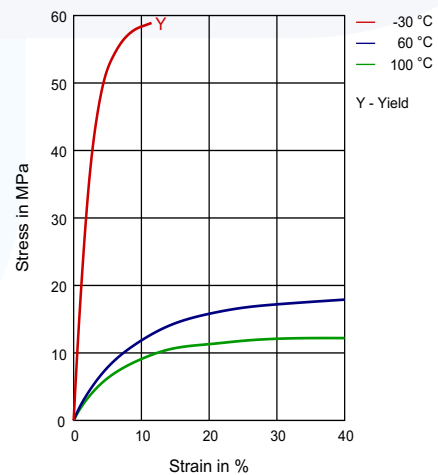
SHEARSTRESS-SHEAR RATE



DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



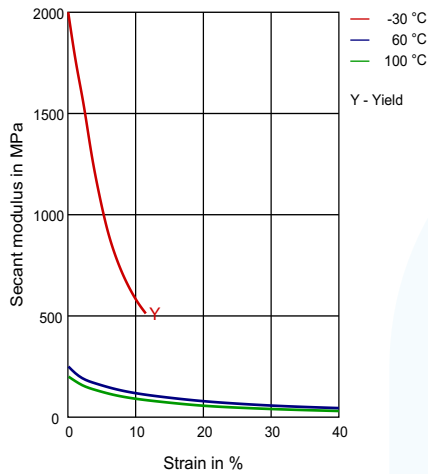
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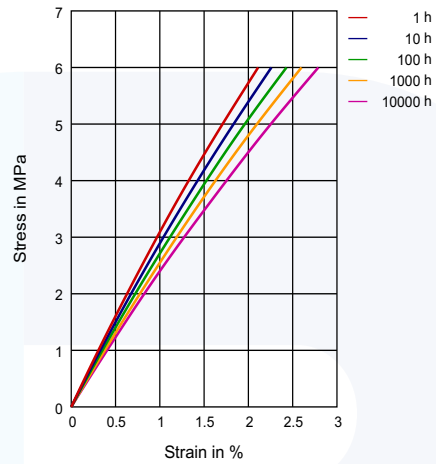
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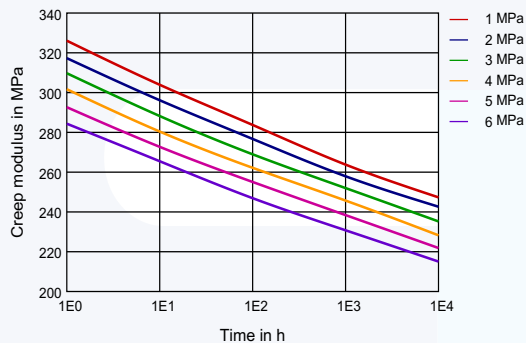
SECANT MODULUS-STRAIN



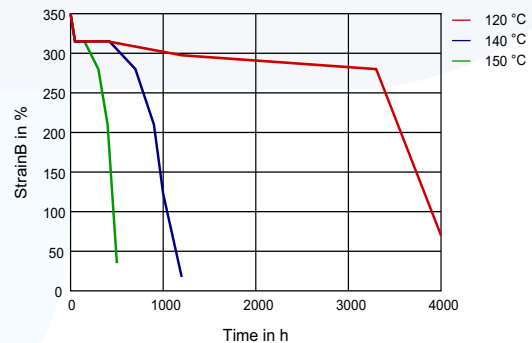
STRESS-STRAIN (ISOCHRONOUS) 23°C



CREEP MODULUS-TIME 23°C



LTHA-STRAIN AT BREAK 2MM



Processing conditions, Extrusion :

- Typical melt temperature (Min / Recommended / Max) : 200°C / 220°C / 240°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80°C.

PROCESSING

Injection Molding, Profile Extrusion, Other Extrusion

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

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DELIVERY FORM

Pellets

ADDITIVES

Lubricants, Plasticizer

REGIONAL AVAILABILITY

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

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