

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:

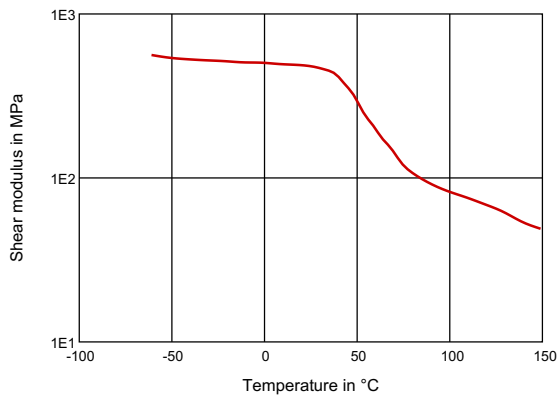
This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

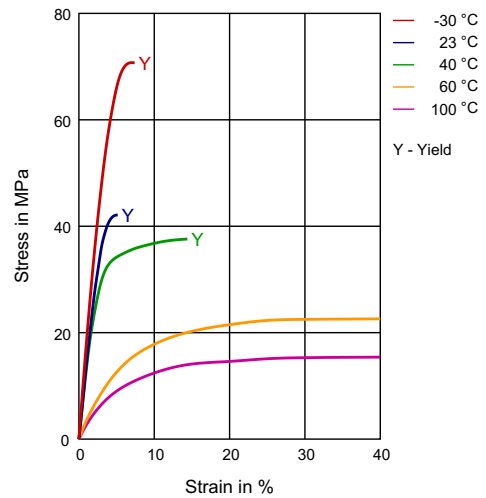
Two years from the date of delivery. for any use above this limit, please refer to our technical services.

DIAGRAMS

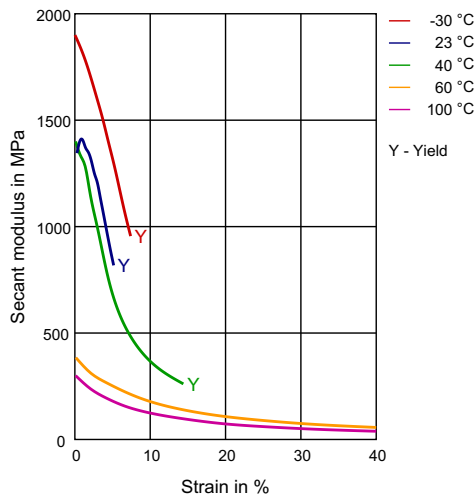
DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



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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