# RILSAMID®
# AESNO P401 TL

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

**Rilsamid® AESNO P401 TL resin** is a natural polyamide.
This grade is plasticized and designed for tube extrusion.

**Rilsamid® AESNO P401 TL resin** falls into the PA12-HIPHL category according to DIN 73378.

| PROPERTIES | DRY / COND | UNIT | TEST STANDARD |
|---|---|---|---|
| RHEOLOGICAL PROPERTIES | | | |
| Melt Volume-Flow Rate | 13 / * | cm³/10 min | ISO 1133 |
| Temperature | 235 / * | °C | - |
| | 455 / * | °F | |
| Load | 5 / * | kg | - |
| | 11 / * | lb | |
| MECHANICAL PROPERTIES | | | |
| Tensile Modulus | - / 360 | MPa | ISO 527-1/-2 |
| | - / 52200 | psi | |
| Stress at 50% Strain | - / 24 | MPa | ISO 527-1/-2 |
| | - / 3480 | psi | |
| Strain at Break | - / >50 | % | ISO 527-1/-2 |
| Charpy Impact Strength, +23°C | No Break / No Break | kJ/m² | ISO 179/1eU |
| Charpy Impact Strength, -30°C | No Break / No Break | kJ/m² | ISO 179/1eU |
| Charpy Notched Impact Strength, +23°C | 46 / No Break | kJ/m² | ISO 179/1eA |
| | 21.9 / No Break | ftlb/in² | |
| Charpy Notched Impact Strength, -30°C | 4 / 8 | kJ/m² | ISO 179/1eA |
| | 1.9 / 3.81 | ftlb/in² | |
| THERMAL PROPERTIES | | | |
| Melting Temperature, 10°C/min | 174 / * | °C | ISO 11357-1/-3 |
| ELECTRICAL PROPERTIES | | | |
| Dielectric (Electric) Strength | 41 / - | kV/mm | IEC 60243-1 |
| | 1040 / - | kV/in | |
| Comparative Tracking Index | 600 / - | - | IEC 60112 |
| OTHER PROPERTIES | | | |
| Water Absorption, 23°C, immersion, equilibrium | 1.2 / * | % | ISO 62 |
| Density | 1030 / - | kg/m³ | ISO 1183 |
| | 1.03 / - | g/cm³ | |

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## MAIN APPLICATIONS:
Tubings

## PACKAGING:
This grade is delivered dried in sealed packaging (44 lb bags / 1000 lb containers) 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 for extrusion :**

- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 270°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80°C.

## REGIONAL AVAILABILITY

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

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