+135-3858-6433 (GuangDong)
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RILSAMID®

TECHNICAL DATA SHEET

# RILSAMID® AECNO TL

## POLYAMIDE 12 PELLET

RILSAMID® AECNO TL is a polyamide 12. This natural grade is designed for cable coating.

**Designation :** ISO 16396 - PA12, KG1HL, C12-010

### TYPE

PA12

### MAIN APPLICATIONS

- Downstream - Gas Station Piping
- Performance Wire
- Cable
- Industry - Distribution
- Heavy Truck - Air Brake Lines

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## MECHANICAL PROPERTIES

| PROPERTIES | DRY / COND VALUE* | UNIT | TEST STANDARD |
|---|---|---|---|
| Hardness, Shore D, 15 s | - / 71 | | ISO 868 |
| Charpy unnotched impact strength, 23°C (73°F) | - / No Break | | ISO 179 1eU |
| Charpy unnotched impact strength, -30°C (-22°F) | - / No Break | | ISO 179 1eU |
| Nominal strain at break, 23°C (73°F), 50 mm/min | - / > 50 | % | ISO 527-1/-2 |
| Yield strain, 23°C (73°F), 50 mm/min | - / 5 | % | ISO 527-1/-2 |
| Yield stress, 23°C (73°F), 50 mm/min | - / 43 | MPa | ISO 527-1/-2 |
| Tensile modulus, 23°C (73°F), 1 mm/min | - / 1250 | MPa | ISO 527-1/-2 |
| Charpy notched impact strength, 23°C (73°F) | - / 5 | kJ/m2 | ISO 179 1eA |
| Charpy notched impact strength, -30°C (-22°F) | - / 7 | kJ/m2 | ISO 179 1eA |
| Flexural modulus, 23°C (73°F) | - / 1250 | MPa | ISO 178 |

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

## THERMAL PROPERTIES

| PROPERTIES | VALUE | UNIT | TEST STANDARD |
|---|---|---|---|
| Melting temperature, 10°C/min | 178 | °C | ISO 11357-1/-3 |

## OTHER PROPERTIES

| PROPERTIES | VALUE | UNIT | TEST STANDARD |
|---|---|---|---|
| Specific gravity, 23°C (73°F) | 1.01 | g/cm³ | ISO 1183-1 |

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# RILSAMID® AECNO TL

## PACKAGING

Available packaging:
- 25 kg / 55 lb bags

## SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

## PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

## DIAGRAMS