

## TECHNICAL DATA SHEET

# RILSAMID® AESNO TL

## POLYAMIDE 12 PELLET

RILSAMID® AESN BLACK P40 TL is a polyamide 12 compound. This natural grade is designed for tube extrusion.

Designation : ISO 16396 - PA12, EG1HL, C22-010

### DESIGNATION

PA12

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Sheet Extrusion
- Tube Extrusion

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	8 cm <sup>3</sup> /10min	ISO 1133

## MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Flexural modulus, 23°C (73°F)	- / 1230 MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	1500 / 1440 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	50 / 43 MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	> 50 / > 50 %	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	5 / 5 %	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 11 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 6 kJ/m <sup>2</sup>	ISO 179 1eA
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

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

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속성	값	테스트 표준
Melting temperature, 10°C/min	180 °C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	135 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	55 °C	ISO 75-1/-2
Vicat softening temperature, 50N at 50°C/h	142 °C	ISO 306
Burning behavior, tested thickness 1,5 mm	HB	IEC 60695-11-10
Yellow card available	yes	

## THERMAL PROPERTIES/ELECTRICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Surface resistivity, 23°C (73,4°F)	- / 1.0E+14 ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 1.0E+12 ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73,4°F)	- / 600	IEC 60112
Dielectric stress, 23°C (73,4°F)	- / 30	IEC 60243-1

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COND: Conditionned.

## OTHER PROPERTIES

속성	값	테스트 표준
Water absorption, 23°C (73°F), immersion, equilibrium	1.6 %	ISO 62
Specific gravity, 23°C (73°F)	1.01 g/cm <sup>3</sup>	ISO 1183-1

## PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 26 kg / 55 lb bags

## SHELF LIFE

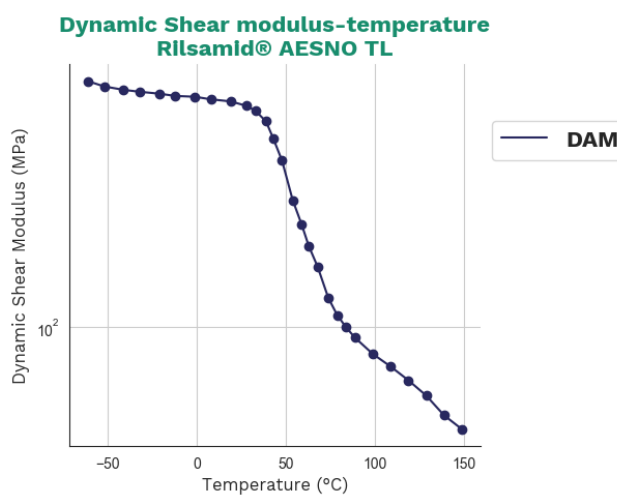
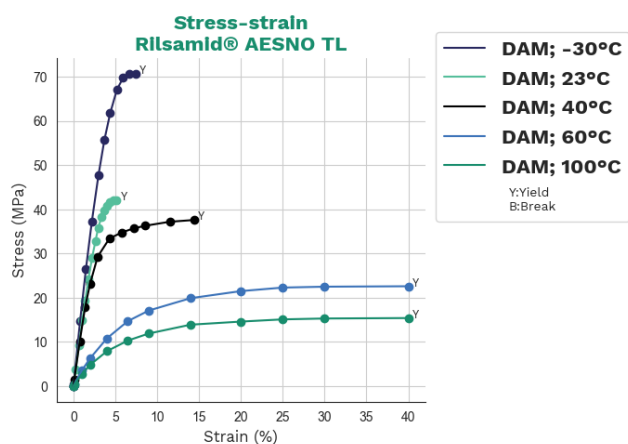
Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

## PROCESSING CONDITIONS:

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

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## DIAGRAMS



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