

## TECHNICAL DATA SHEET

# RILSAMID® AESN BLACK P110 TL

## POLYAMIDE 12 PELLET

RILSAMID® AESN BLACK P110 TL is a polyamide 12 compound. This impact-modified grade is designed for tube extrusion and has improved hydrolysis resistance. It is a market standard to produce automotive cooling & selective catalyst reduction (SCR) lines.

Designation : ISO 16396 - PA12-I, EG1HL, C24-010

### DESIGNATION

PA12-I

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Melt volume flow rate (MVR), 275°C / 5kg (527°F / 11 lb)	0.4 cm <sup>3</sup> /10min	ISO 1133

## MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Tensile modulus, 23°C (73°F), 1 mm/min	1120 / 1000 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 31 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	18 / 18 %	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	>50 / >50 %	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 1016 MPa	ISO 178
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
Charpy notched impact strength, 23°C (73°F)	- / 75 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 18 kJ/m <sup>2</sup>	ISO 179 1eA

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

속성	값	테스트 표준
Melting temperature, 10°C/min	176 °C	ISO 11357-1/-3

# RILSAMID® AESN BLACK P110 TL

## OTHER PROPERTIES

속성	값	테스트 표준
Specific gravity, 23°C (73°F)	1 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)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

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