

## 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

### MAIN APPLICATIONS

- Auto - Water Cooling Circuit
- Auto - SCR Lines & Tanks

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

### ADDITIVES

- Heat Stabilized
- Light Stabilized

## RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Melt volume flow rate (MVR), 275°C / 5kg (527°F / 11 lb)	0.4 cm <sup>3</sup> /10min	ISO 1133

## MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
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.

# RILSAMID® AESN BLACK P110 TL

## THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	176 °C	ISO 11357-1/-3

## OTHER PROPERTIES

プロパティ	価値	テスト基準
Specific gravity, 23°C (73°F)	1 g/cm <sup>3</sup>	ISO 1183-1

## 包装

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

- 25 kg / 55 lb bags

## 賞味期限

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:

- 典型的な溶融温度 (最小 / 推奨 / 最大) - 射出成形: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- 典型的な金型温度 - 射出成形: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

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