

## TECHNICAL DATA SHEET

# RILSAMID® AESN BLACK P40 TL

## POLYAMIDE 12 PELLET

RILSAMID® AESN BLACK P40 TL is a polyamide 12 compound. This plasticized grade is designed for tube extrusion, including air brake tubing (PHL).

Designation : ISO 16396 - PA12-P, EG1HL, C22-004

### DESIGNATION

PA12-P

### MAIN APPLICATIONS

- Downstream - Gas Station Piping
- Auto - In Tank & Fuel Venting Lines

### 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), 235°C / 5 kg (455°F / 11 lb)	10 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	445 / 445 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 27 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 27 %	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50 %	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 395 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)	No Break / No Break	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 5 kJ/m <sup>2</sup>	ISO 179 1eA
Hardness, Shore D, 15 s	- / 62	ISO 868

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

# RILSAMID® AESN BLACK P40 TL

## THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	174 °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)	1.03 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)
- 典型的な成型温度 - 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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