

## TECHNICAL DATA SHEET

# RILSAMID® AMN BLACK P40 TLD

## POLYAMIDE 12 PELLET

RILSAMID® AMN BLACK P40 TLD is a polyamide 12 compound. This plasticized grade is designed for injection molding.

Designation : ISO 16396 - PA12-P, M1G1HLR, C12-005

### DESIGNATION

PA12-P

### MAIN APPLICATIONS

- Industry - Others
- Industry - Distribution

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Injection Molding

### ADDITIVES

- Heat Stabilized
- Light Stabilized
- Release agent

## RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Shrinkage, Parallel (t+24h)	1.9 %	ISO 294-4
Shrinkage, Normal (t+24h)	1.9 %	ISO 294-4
Melt volume flow rate (MVR), 235°C / 2.16 kg (455°F / 4.4 lb)	51 cm <sup>3</sup> /10min	ISO 1133

## MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
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	- / 26 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 24 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	460 / 460 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 25 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 4 kJ/m <sup>2</sup>	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 400 MPa	ISO 178

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

# RILSAMID® AMN BLACK P40 TLD

## THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	172 °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)	1.04 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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