

TECHNICAL DATA SHEET

RILSAMID® AMN BLACK P20 TLD

POLYAMIDE 12 PELLET

RILSAMID® AMN BLACK P20 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 - Distribution
- Auto - Fluid Connectors
- Auto - Others Injection

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer
- 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)	44 cm³/10min	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	- / 19 %	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 31 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	460 / 550 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 18 kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 4 kJ/m²	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 530 MPa	ISO 178

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

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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)	1.02 g/cm ³	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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