

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

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Release agent

RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
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 ³ /10min	ISO 1133

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
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 ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 4 kJ/m ²	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

속성	값	테스트 표준
Melting temperature, 10°C/min	172 °C	ISO 11357-1/-3

OTHER PROPERTIES

속성	값	테스트 표준
Specific gravity, 23°C (73°F)	1.04 g/cm ³	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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