RILSAMID®

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

TYPE

PA12-P

MAIN APPLICATIONS

- industry - others
- industry - distribution

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Release agent

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
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	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
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	%	ISO 527-1/-2
Yield strain, 23°C (73°F)	- / 26	%	ISO 527-1/-2
Yield stress, 23°C (73°F)	- / 24	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F)	- / 460	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 25	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)	- / 400	MPa	ISO 178
Stress at break, 23°C (73°F)	- / 52	MPa	ISO 527-1/-2

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

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THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	172	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.04	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 25 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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