RILSAMID®

TECHNICAL DATA SHEET

RILSAMID® AESN BLACK P202 T6L

POLYAMIDE 12 PELLET

RILSAMID® AESN BLACK P202 T6L is a polyamide 12 compound. This plasticized and impact-modified high temperature grade is specially designed for automotive fluid transfer line applications.

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

TYPE

PA12-IP

MAIN APPLICATIONS

- auto - gasoline lines
- auto - diesel lines

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	14	cm^3/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Tensile modulus, 23°C (73°F)	440 / 440	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F)	- / 28	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F)	- / 25	%	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	- / > 50	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 391	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 / 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)	- / 4	kJ/m2	ISO 179 1eA
Stress at break, 23°C (73°F)	- / 49	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	173	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.03	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 25 kg / 55 lb bags
- 550 kg rigid containers

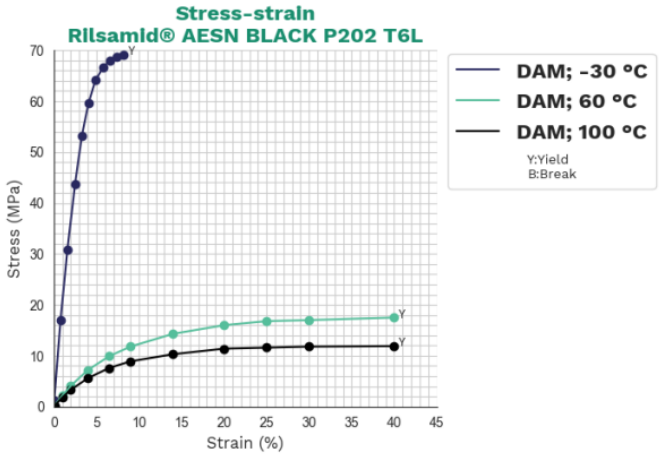
SHELF LIFE

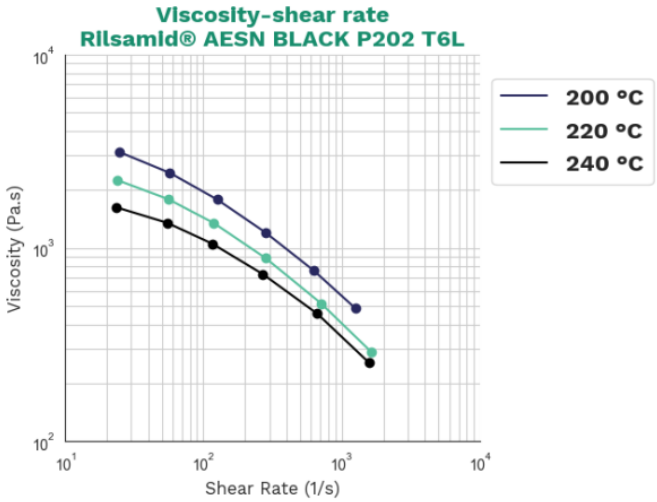
Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

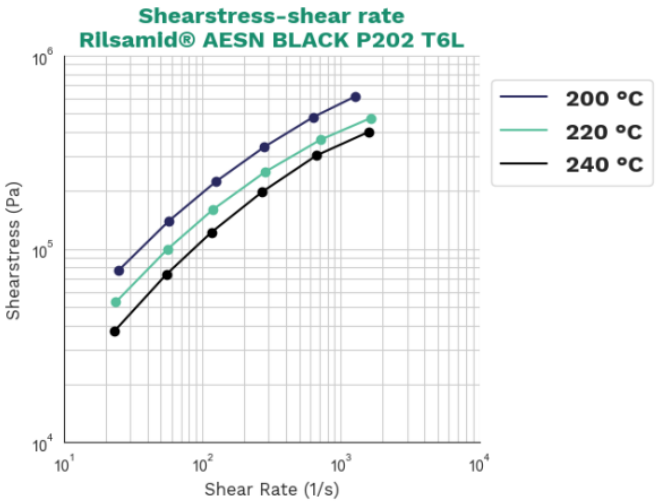
- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

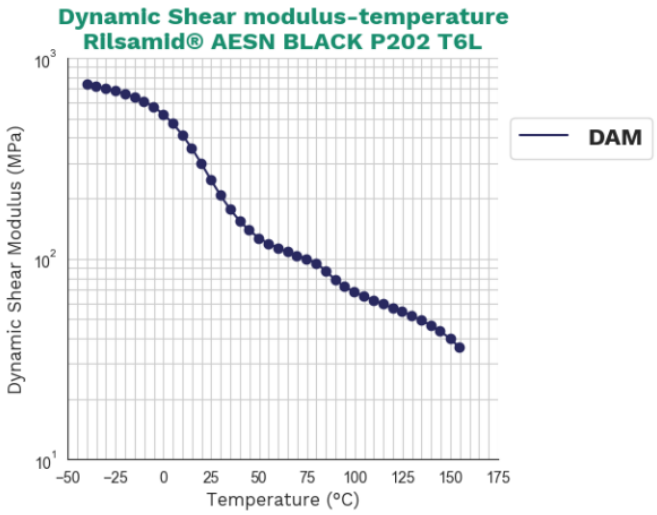
DIAGRAMS





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