

TECHNICAL DATA SHEET RILSAMID® AESNO TL

POLYAMIDE 12 PELLET

RILSAMID® AESN BLACK P40 TL is a polyamide 12 compound. This natural grade is designed for tube extrusion.

Designation : ISO 16396 - PA12, EG1HL, C22-010

TYPE

PA12

MAIN APPLICATIONS

- Cables Antitermites
- Cable
- Compounding
- Hoses & Tubes - Pneumatics
- Hoses & Tubes
- Industry - Distribution

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Sheet Extrusion
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	8	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	UNIT	テスト基準
Flexural modulus, 23°C (73°F)	- / 1230	MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	1500 / 1440	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	50 / 43	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	> 50 / > 50	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	5 / 5	%	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 11	kJ/m²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 6	kJ/m²	ISO 179 1eA
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

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

THERMAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Melting temperature, 10°C/min	180	°C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	135	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	55	°C	ISO 75-1/-2
Vicat softening temperature, 50N at 50°C/h	142	°C	ISO 306
Yellow card available	YES		
, minimum thickness 1.5 mm	HB		IEC 60695-11-10
	HB		IEC 60695-11-10

ELECTRICAL PROPERTIES

プロパティ	DRY / COND VALUE*	UNIT	テスト基準
Surface resistivity, 23°C (73°F)	- / 1.0E+14	ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73°F)	- / 1.0E+12	ohm/m	IEC 62631-3-1
Comparative tracking index, 23°C (73°F)	- / 600		IEC 60112
Dielectric stress, 23°C (73°F)	- / 30		IEC 60243-1

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

OTHER PROPERTIES

プロパティ	価値	UNIT	テスト基準
Water absorption, 23°C(73°F), immersion, equilibrium	1.6	%	ISO 62
Specific gravity, 23°C (73°F)	1.01	g/cm³	ISO 1183-1

包装

Available packaging:
• 25 kg / 55 lb 袋

賞味期限

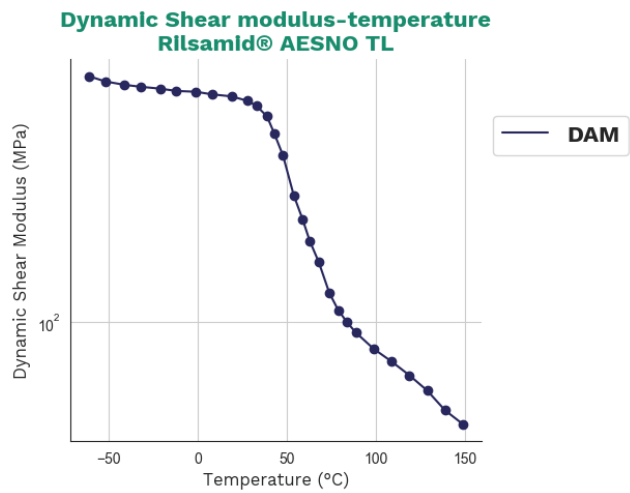
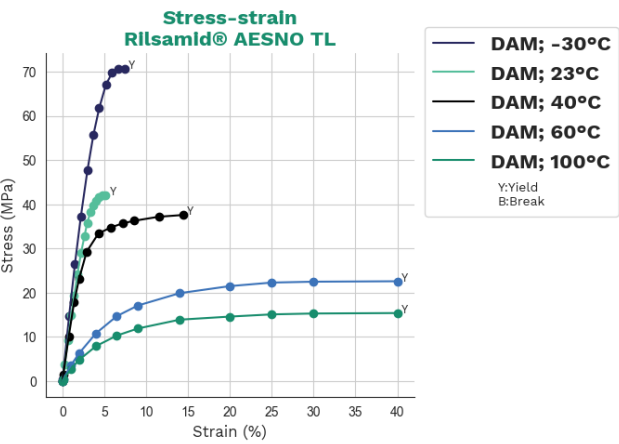
Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- 典型的な熔融温度 (最小 / 推奨 / 最大) - 射出成形: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

RILSAMID® AESNO TL

DIAGRAMS



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