

TECHNICAL DATA SHEET

RILSAMID® AESN BLACK T6L

POLYAMIDE 12 PELLET

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

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

TYPE

PA12

MAIN APPLICATIONS

- Cables Antitermites
- Hoses & Tubes - Pneumatics
- Auto - Others Extrusion
- Auto - Gasoline Lines
- Auto - CNG-LPG-LNG Lines & Tanks
- Auto - Metal Tube Coating
- Heavy Truck - Others Extrusion

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	8	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND 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 mm/min	- / > 50	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 5	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 44	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	1350 / 1350	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 12	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 8	kJ/m2	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 1200	MPa	ISO 178

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

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	180	°C	ISO 11357-1/-3

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Specific gravity, 23°C (73°F)	1.01	g/cm ³	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