

TECHNICAL DATA SHEET

RILSAN® TIEFLEX R073 BLACK T6L

POLYAMIDE ALLOY PELLET

RILSAN® TIEFLEX R073 BLACK T6L is a polyamide alloy. It is partially produced from a renewable & sustainable source (castor oil). This grade is designed for low extractible multilayer automotive fuel lines (structural tie layer).

TYPE

PA*

MAIN APPLICATIONS

- Auto Battery Cooling
- Auto - Gasoline Lines
- Heavy Truck H2 & Gas Lines And Tanks

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

ADDITIVES

- Heat Stabilized
- Light Stabilized

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Yield stress	/ 48	MPa	ISO 527-1/-2
Yield strain	/ 4	%	ISO 527-1/-2
Tensile modulus	/ 1860	MPa	ISO 527-1/-2
Stress at break	/ 44	MPa	ISO 527-1/-2
Nominal strain at break	/ > 50	%	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	/ NB	kJ/m2	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	/ NB	kJ/m2	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	/ 82	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	/ 17	kJ/m2	ISO 179 1eA

* Dry / Cond

Dry: Dry As Molded (DAM) if pellet / Dry if powder.

Cond: Conditionned.

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	218	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density	1.09		ISO 1183-1

PACKAGING

Available packaging:

- 25 kg / 55 lb bags

RILSAN® TIEFLEX R073 BLACK T6L

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

SPECIAL CHARACTERISTICS

- Bio-based

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