

TECHNICAL DATA SHEET

RILSAN® ROTO 11 NATURAL

POLYAMIDE 11 POWDER

RILSAN® ROTO 11 NATURAL is a polyamide 11 powder. It is produced from a renewable & sustainable source (castor oil). This grade is designed for roto molding.

Designation : ISO 16396 - PA11-P, RDHL, C12-010

TYPE

PA11-P

MAIN APPLICATIONS

- Heavy Truck H2 & Gas Lines And Tanks

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Rotomolding

ADDITIVES

- Plasticizer

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Yield strain, 23°C (73°F), 50 mm/min	- / 31	%	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 43	MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F), 1 mm/min	- / 965	MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 7.5	kJ/m2	ISO 179 1eA
Stress at break	- / 37	MPa	ISO 527-1/-2
Strain at break	- / > 50	%	ISO 527-1/-2

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

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	185	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Specific gravity, 23°C (73°F)	1.05	g/cm³	ISO 1183-1

PACKAGING

Available packaging:

- 45 kg / 100 lb drums

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.

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SPECIAL CHARACTERISTICS

- Bio-based

DIAGRAMS

