

TECHNICAL DATA SHEET

RILSAN® KNO T3L

POLYAMIDE 11 PELLET

RILSAN® KNO T3L is a polyamide 11 resin. It is produced from a renewable and a sustainable source (castor oil). This natural color grade is specially designed for injection molding.

Designation : ISO 16396 - PA11,M,C16-010

TYPE

PA11

MAIN APPLICATIONS

- Equipment

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	25	cm³/10min	ISO 1133
Shrinkage, parallel (t+24h)	1.3	%	ISO 294-4
Shrinkage, normal (t+24h)	1.3	%	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	1200 / 1000	MPa	ISO 178
Tensile modulus, 23°C (73°F)	1300 / 1100	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F)	42 / 40	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F)	24 / 26	%	ISO 527-1/-2
Stress at break, 23°C (73°F)	64 / 64	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	> 280 / > 280	%	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	No break / 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)	9 / 11	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	10 / 10	kJ/m2	ISO 179 1eA
Hardness, shore D, instantaneous	77 / 74		ISO 868
Hardness, shore D, 15 s	71 / 70		ISO 868
Abrasion resistance (H18 / 1000 g / 1000 cycles)	13 / -	mg	ISO 9352

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

RILSAN® KNO T3L

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	188	°C	ISO 11357-1/-3
Heat deflection temperature, 0.45 MPa	113	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	43	°C	ISO 75-1/-2

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.025	g/cm³	ISO 1183-1
Bio-based carbon content, 0°C	100	%	ASTM D6866
Water absorption, at equilibrium at 23°C (73°F) / 50%RH	0.8	%	ISO 62
Water absorption, at equilibrium at 23°C (73°F) / Immersion	1.8	%	ISO 62

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.

SPECIAL CHARACTERISTICS

- Bio-based

REGIONAL AVAILABILITY

Asia Pacific, Europe, Middle East

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