

RILSAN® KNO

PA11, M, 18-010

Rilsan® KNO resin is a polyamide 11 resin produced from a renewable source. This natural grade is specially designed for injection molding.

The percentage of **renewable carbon measured** according to ASTM D6866 is 98%.

MAIN CHARACTERISTICS

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.7	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.7	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	1250	MPa	ISO 527-1/-2
Yield stress	37	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal Strain at Break	>50	%	ISO 527-1/-2
Shore D Hardness, 15s	73	-	ISO 7619-1
Charpy Impact Strength, +23°C	No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	11	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	13	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	189	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1030	kg/m ³	ISO 1183
%Bio-Based	98	-	ASTM D6866

MAIN APPLICATIONS:

- Injected parts

PACKAGING:

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE:

Two years from the delivery. For any use above this limit, please refer to our technical services.

Processing conditions:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 270°C.
- Mold temperature : 20 - 40°C

- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80-90°C.

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

RILSAN®
BY **ARKEMA**

Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SBC/11-2018

RILSAN® KNO

PROCESSING

Injection Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Bio-Based

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Arkema France - A French "société anonyme" registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790
SIC/11-2018

Please consult Arkema's disclaimer regarding the use of Arkema's products on
<https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

Rilsan® is a registered trademark of Arkema
© 2022 Arkema Inc. All rights reserved.

rilsan.com

Arkema Inc. – Technical Polymers

900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-america.com

RILSAN®
BY ARKEMA

Headquarters: Arkema France

420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com