+135-3858-6433 (GuangDong)
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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%.

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
	181000	psi	
Yield stress	37	MPa	ISO 527-1/-2
	5370	psi	
Yield strain	4	%	ISO 527-1/-2
Nominal Strain at Break	>50	%	ISO 527-1/-2
Shore D Hardness	73	-	ISO 868
Charpy Impact Strength, +23°C	No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	11	kJ/m²	ISO 179/1eA
	5.23	ftlb/in²	
Charpy Notched Impact Strength, -30°C	13	kJ/m²	ISO 179/1eA
	6.18	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	189	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1030	kg/m³	ISO 1183
	1.03	g/cm³	
%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:

ARKEMA

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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.

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