

RILSAN® CLEAR G820 RNEW®

PA,,MHT,C14-020

Rilsan® Clear G820 Rnew® is a high performance transparent polyamide with outstanding chemical resistance and stress cracking resistance. This grade has been designed for injection molding applications.

The percentage of **renewable carbon is 60%** (calculated value, based on ASTM D6866).

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	8 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	2.16 / *	kg	-
Molding Shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.4 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1665	MPa	ISO 527-1/-2
Yield stress	- / 66	MPa	ISO 527-1/-2
Yield strain	- / 7	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness, 15s	76 / *	-	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	- / 6	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 9	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Glass Transition Temperature, 10°C/min	120 / *	°C	ISO 11357-1/-2
Temp. of Deflection Under Load, 1.80 MPa	73 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	85 / *	°C	ISO 75-1/-2
OTHER PROPERTIES			
Water Absorption	2.45 / *	%	Sim. to ISO 62
Humidity Absorption	1.16 / *	%	Sim. to ISO 62
Density	1000 / -	kg/m ³	ISO 1183
%Bio-Based	60	-	ASTM D6866
OPTICAL PROPERTIES			
Luminous Transmittance	92	%	ISO 13468-1, -2

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

RILSAN® CLEAR G820 RNEW®

MAIN APPLICATIONS:

- Optic
- Electronics
- Domestic appliances

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) : 260°C / 280°C / 300°C
- Typical mold temperature : 20 - 80 °C
- Drying time and temperature (only for bags opened for more than two hours): 4 - 6 hours at 80°C

PROCESSING

Injection Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Bio-Based, Transparent

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America

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

rilsamid.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®
CLEAR
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