

RILSAN® CLEAR G850 RNEW® MED

PA,,MHT,C16-020

Rilsan® Clear G 850 Rnew® MED is a high performance transparent copolyamide having outstanding purity level, partially based on renewable resources. This grade offers highest quality and is specifically designed to meet the stringent requirements of the medical applications.

The percentage of **renewable carbon measured** according to ASTM D6866 is 45%.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Molding Shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1670	MPa	ISO 527-1/-2
Yield stress	- / 61	MPa	ISO 527-1/-2
Yield strain	- / 8	%	ISO 527-1/-2
Nominal Strain at Break	- / > 50	%	ISO 527-1/-2
Shore D Hardness, 15s	78 / *	-	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	- / 7.5	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 7	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Glass Transition Temperature, 10°C/min	150 / *	°C	ISO 11357-1/-2
Temp. of Deflection Under Load, 1.80 MPa	120 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
OTHER PROPERTIES			
Water Absorption	4 / *	%	Sim. to ISO 62
Humidity Absorption	1.7 / *	%	Sim. to ISO 62
Density	1010 / 1010	kg/m ³	ISO 1183
%Bio-Based	45	-	ASTM D6866
OPTICAL PROPERTIES			
Luminous Transmittance	92	%	ISO 13468-1, -2

MAIN APPLICATIONS:

- Dental accessories
- reathing mask
- Medical perfusion tube accessories

PACKAGING:

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

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RILSAN® CLEAR G850 RNEW® MED

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) : 250°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 90°C

PROCESSING

Injection Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Bio-Based, Transparent

REGIONAL AVAILABILITY

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

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Please consult Arkema's disclaimer regarding the use of Arkema's products on
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