

RILSAN® CLEAR G850 RNEW®

PA,,MHT,C16-020

Rilsan® Clear G850 Rnew® is a high performance transparent copolyamide, partially based on renewable resources. This grade has been specially designed for injection molding applications, ideally suited for optic as high end eyewear frames.

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	78 / *	-	ISO 868
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
Burning Behav. at 1.5 mm Nominal Thickness	V-2 / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
Yellow Card available	yes / *	-	-
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

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RILSAN® CLEAR G850 RNEW®

OPTICAL PROPERTIES

Luminous Transmittance	92	%	ISO 13468-1, -2
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MAIN APPLICATIONS:

- Sun
- Structural frames of smart phones
- optical
- Watch covers
- reading glass frames
- Household 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) : 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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