

RILSAN® CLEAR G850 RNEW MED

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.

Percentage of renewable carbon according to ASTM D 6866: 45%

Main applications:

- Dental accessories.
- Breathing mask.
- Medical perfusion tube accessories.

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

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Tensile Modulus	- / 242000	psi	ISO 527-1/-2
Yield stress	- / 8850	psi	ISO 527-1/-2
Yield strain	- / 8	%	ISO 527-1/-2
Nominal strain at break	- / >50	%	ISO 527-1/-2
Charpy impact strength, +23°C	- / N	ftlb/in ²	ISO 179/1eU
Charpy impact strength, -30°C	- / N	ftlb/in ²	ISO 179/1eU
Charpy notched impact strength, +23°C	- / 3.57	ftlb/in ²	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 3.33	ftlb/in ²	ISO 179/1eA
Glass transition temperature, 10°C/min	302 / *	°F	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	248 / *	°F	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	275 / *	°F	ISO 75-1/-2
Water absorption	4 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1.01 / 1.01	g/cm ³	ISO 1183
Luminous transmittance	92	%	ISO 13468-1, -2
Injection Molding, melt temperature	536	°F	ISO 294
Injection Molding, mold temperature	140	°F	ISO 10724
Shore D hardness, 15s	78 / *	-	ISO 7619-1

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

RILSAN® CLEAR G850 RNEW MED

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Transparent

Regional Availability

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

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