RILSAN® CLEAR G 830 Rnew

Rilsan® Clear G 830 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.

MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test method
Renewable Carbon (calculation)	**53-55**	%	ASTM D6866
Density	**1.01**	g/cm³	ISO 1183
Water Absorption at Equilibrium At 23°C and 50% R.H. **Water Absorption** After 24 h at 23°C in water	**1.3** **3.3**	% %	ISO 62
Heat Deflection Temperature Under 0.45 MPa Under 1.80 MPa	**110** **95**	°C °C	ISO 75
Glass Transition Temperature (Tg)	**135**	°C	ISO 11357
Transparency (560 nm, 2 mm)	**91.5**	%	ASTM D 1003-97
Shrinkage (after 24 h, 4 mm, mold at 40°C) // ⊥	**0.46** **0.51**	% %	Internal method
Hardness (*) Instantaneous After 15 s	**83** **81**	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Yield Strain at Yield Stress at Break Strain at Break	**55** **7** **60** **> 150**	MPa % MPa %	ISO 527
Tensile Modulus (*)	**1690**	MPa	ISO 527
Flexural Modulus (*)	**1530**	MPa	ISO 178
Charpy Impact (*) Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	**No break** **No break** **11** **10**	kJ/m² kJ/m² kJ/m² kJ/m²	ISO 179

(*) Samples conditioned 15 days at 23°C - 50 % R.H.

RILSAN® CLEAR BY ARKEMA

RILSAN® CLEAR G 830 Rnew

MAIN APPLICATIONS

- Sun, optical, reading glass frames.
- Mobile phone covers.
- Headphone frames.

PROCESSING CONDITIONS

Conditions	Typical values
Injection Melt Temperature (Min / Recommended / Max)	**250°C / 280°C / 300°C**
Mold Temperature	**20 – 80°C**

Drying (only necessary for bags opened for more than two hours) Time Temperature	**4 - 6 hours** **90°C**

PACKAGING

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

SHELF LIFE

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

See Safety Data Sheet for Health & Safety Considerations.

TDS / 57290 / Janvier 2013 - ARKEMA Société anonyme au capital de 614 937 940 euros - 445 074 685 RCS Nanterre

Arkema Specialty Polyamides
420, rue d'Estienne d'Orves
92705 Colombes Cedex - France
arkema.com –**rilsanclear.com**

ARKEMA
INNOVATIVE CHEMISTRY