

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.

According to ASTM D6866, the biobased carbon content is measured at 62%.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	8 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
	527 / *	°F	-
Load	2.16 / *	kg	-
	4.76 / *	lb	-
Molding Shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1665	MPa	ISO 527-1/-2
	- /	psi	
Yield Stress	241000 - / 766	MPa	ISO 527-1/-2
	- / 9570	psi	
Yield Strain	- / 7	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness, after 15s	76 / *	-	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	- / 6	kJ/m ²	ISO 179/1eA
	- / 2.85	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 9	kJ/m ²	ISO 179/1eA
	- / 4.28	ftlb/in ²	
THERMAL PROPERTIES			
Glass Transition Temperature, 10°C/min	120 / *	°C	ISO 11357-1/-2
	248 / *	°F	

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 Trade and Companies Register under the number 319 632 790 SDC/11-2018
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Temp. of Deflection Under Load, 1.80 MPa	73 / *	°C	ISO 75-1/-2
	163 / *	°F	
Temp. of Deflection Under Load, 0.45 MPa	85 / *	°C	ISO 75-1/-2
	185 / *	°F	
OTHER PROPERTIES			
%Bio-Based	62	-	ASTM D6866
Water Absorption, 23°C, immersion, equilibrium	2.45 / *	%	ISO 62
Humidity Absorption, 23°C, RH50%, equilibrium	1.16 / *	%	ISO 62
Density	1000 / 1000	kg/m ³	ISO 1183
	1 / 1	g/cm ³	
OPTICAL PROPERTIES			
Luminous Transmittance	92	%	ISO 13468-1, -2

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	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
DELIVERY FORM Pellets	
SPECIAL CHARACTERISTICS Bio-Based, Transparent	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America	

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