

TECHNICAL DATA SHEET

RILSAN® CLEAR G170 GREY 01

AMORPHOUS POLYAMIDE PELLET

RILSAN® CLEAR G170 GREY 01 is a high performance transparent polyamide resin with outstanding thermal resistance. This grade has been designed for injection molding applications.

TYPE

PA*

MAIN APPLICATIONS

- Accessories
- Ace - others
- Ahome appliances (consum. electron.)

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 1980	MPa	ISO 178
Tensile modulus, 23°C (73°F)	2100 / 2020	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F)	76 / 74	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F)	8 / 9	%	ISO 527-1/-2
Stress at break, 23°C (73°F)	- / 58	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	> 50 / > 50	%	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	No break / No break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No break / No break		ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	- / 13	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 13	kJ/m2	ISO 179 1eA
Hardness, shore D, 15 s	- / 79		ISO 868

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Glass transition temperature, 10°C/min	168	°C	ISO 11357-1/-2
Heat deflection temperature, 0.45 MPa	150	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	136	°C	ISO 75-1/-2

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OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Water absorption, at equilibrium at 23°C (73°F) / 50%RH	1.7	%	ISO 62
Water absorption, at equilibrium at 23°C (73°F) / Immersion	3.8	%	ISO 62

PACKAGING

Available packaging:

- 25 kg / 55 lb bags

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 270°C / 290°C / 310°C (520°F / 555°F / 590°F)
- Typical mold temperature - Injection molding: 40-80°C (105-175°F)
- Drying time and temperature: 90°C (195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Transparent

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