

PRODUCT DESCRIPTION

Rilsan® Invent Natural and Rilsan® Invent Black are both polyamide 11 fine powders, a high performance polyamide 100% sourced from a renewable raw material. They have been specially developed for this process, with good control of particle size and thermal properties, providing very good processability in LS machines. Rilsan® Invent parts display superior mechanical properties compared to polyamide 12, with outstanding impact resistance, higher ductility and elasticity. (Not recommended for large, flat parts.)

MECHANICAL PROPERTIES

	VALUE	UNIT	TEST STANDARD
Flexural Modulus (23°C)	~1200	MPa	ISO 178
Izod Impact Notched (23°C)	8.9	kJ/m ²	ISO 180/1A
Izod Impact Unnotched (23°C)	No Break	kJ/m ²	ISO 179 1eu
Shore D Hardness (15s)	68-77	—	ISO 868
Ball Indentation Hardness	—	MPa	ISO 2039-1

THERMAL PROPERTIES

	VALUE	UNIT	TEST STANDARD
Melting Temperature (10°C/min)	201	°C	ISO 11357-1/-3
Vicat Softening Temperature (A)	189	°C	ISO 306
Vicat Softening Temperature (50°C/h 50N)	172	°C	ISO 306

OTHER PROPERTIES

	VALUE	UNIT	TEST STANDARD
Density (Laser Sintered)	960	kg/m ³	ISO 1068-1975

CHARACTERISTIC

Processing –

Laser Sintering

Delivery Form –

Natural and Black

Manufacturer –

Arkema (Rilsan® Invent)

Last Change: 2013-02-08

The data corresponds to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice.

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