RILSAN®

TECHNICAL DATA SHEET
RILSAN® PA11 T NAT 2P

POLYAMIDE 11 POWDER

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources.
RILSAN® T range is designed for coating metal parts using the fluidized bed dip coating process. They provide superior protection against wear, impact, corrosion, chemicals as well as graffiti. Please consult Arkema literature for application method and recommendations.

Designation

• **PA11**

Delivery Form

• **Powder**

Transformation Processes

• **Fluidized Bed Dipping**

Additives

• **Heat Stabilized**

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Shore D, 23°C (73°F)	**- / 70**	**ISO 868**
Coating impact, 23°C (73°F)	**- / ≥ 2 J**	**ASTM G14**
Hardness, Persoz, 23°C (73°F)	**- / 250**	**ISO 1522**
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	**- / 13 mg**	**ISO 9352**

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

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	**183-188 °C**	**ISO 11357-1/-3**
Vicat softening temperature, 50N at 50°C/h	**181 °C (357.8 °F)**	**ISO 306**

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OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Covering efficiency (300 µm)	0.33 kg/m²	Internal Arkema
Water absorption, 24h	≤ 1 %	ISO 62
Median particles (D50)	100-130 µm	ISO 13320
Bio-based carbon content, Estimated	100 %	ASTM D6866
Salt spray test	Good adhesion after 2000 hours	ISO 9227
Specific gravity of coating, 20°C (68°F)	1.1 g/cm³	ISO 1183-1
Apparent density, Non compacted	0.52	ISO 1068
Apparent density, Compacted	0.62	ISO 1068
Particle Size Distribution (PSD), Fine particles (≤ 40 µm)	1 %	ISO 13320
Particle Size Distribution (PSD), Coarse particles (> 254 µm)	6 %	ISO 13320

SHELF LIFE

Five years shelf life from 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.

SPECIAL CHARACTERISTICS

- **Bio-based**

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