

TECHNICAL DATA SHEET

RILSAN® PA11 T GREY 7017 BHV RX

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

MAIN APPLICATIONS

- Powder Coating - Printing Roller Coating

Delivery Form

- Pellets

Transformation Processes

- Fluidized Bed Dipping

Additives

- Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Persoz, 23°C (73°F)	- / 240	ISO 1522
Hardness, Shore D, 23°C (73°F)	- / 70	ISO 868
Coating impact, 23°C (73°F)	- / ≥ 2 J	ASTM G14
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	- / 15 mg	ISO 9352

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

THERMAL PROPERTIES

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

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Apparent density, Non compacted	0.52	ISO 1068
Apparent density, Compacted	0.62	ISO 1068
Approximate RAL number	7016	
Median particles (D50)	100-130 µm	ISO 13320
Particle Size Distribution (PSD), Fine particles (≤ 40 µm)	8 %	ISO 13320
Particle Size Distribution (PSD), Coarse particles (> 254 µm)	10 %	ISO 13320
Salt spray test	Good adhesion after 2000 hours	ISO 9227
Water absorption, 24h	≤ 1 %	ISO 62
Specific gravity of coating, 20°C (68°F)	1.05 g/cm ³	ISO 1183-1

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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.

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Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.
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