

TECHNICAL DATA SHEET

RILSAN® PA11 T GREY 5161 MAC

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)	- / 74	ISO 868
Coating impact, 23°C (73°F)	- / ≥ 2 J	ASTM G14
Hardness, Persoz, 23°C (73°F)	- / 280	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

RILSAN® PA11 T GREY 5161 MAC

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Covering efficiency (300 µm)	0.35 kg/m ²	Internal Arkema
Water absorption, 24h	≤ 1 %	ISO 62
Median particles (D50)	100-130 µm	ISO 13320
Approximate RAL number	7001	
Salt spray test	Good adhesion after 2000 hours	ISO 9227
Specific gravity of coating, 20°C (68°F)	1.17 g/cm ³	ISO 1183-1
Apparent density, Non compacted	0.57	ISO 1068
Apparent density, Compacted	0.69	ISO 1068
Particle Size Distribution (PSD), Fine particles (≤ 40 µm)	1 %	ISO 13320
Particle Size Distribution (PSD), Coarse particles (> 254 µm)	7 %	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

Headquarter: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
T +33 (0)1 49 00 80 80

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.
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

[arkema.com](https://www.arkema.com)

ARKEMA