

TECHNICAL DATA SHEET

RILSAN® PA11 ES GREY 49 MAC

POLYAMIDE 11 POWDER

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

TYPE

PA11

MAIN APPLICATIONS

- Powder Coating - Others

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Electrostatic spraying

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Hardness, Persoz, 23°C (73°F)	- / 270		ISO 1522
Hardness, Shore D, 23°C (73°F)	- / 71		ISO 868
Taber abrasion, Wheel CS 17, load 1 kg, 1000 cycles	- / 17	mg	ISO 9352

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

THERMAL PROPERTIES

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

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Apparent density, Non compacted	0.44		ISO 1068
Apparent density, Compacted	0.62		ISO 1068
Approximate RAL number	7040		
Covering efficiency (120 µm)	0.14	kg/m ²	Internal Arkema
Median particles (D50)	30	µm	ISO 13320
Particle Size Distribution (PSD) (Fine particles < 20 µm)	20	%	ISO 13320
Particle Size Distribution (PSD) (Coarse particles > 100 µm)	1	%	ISO 13320
Salt spray test	Good adhesion after 2000 hours		ISO 9227
Specific gravity of coating, 20°C (68°F)	1.1	g/cm ³	ISO 1183-1
Water absorption, 24h	≤ 1	%	ISO 62

PACKAGING

Available packaging:

- 20 kg / 44 lb bag

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
51, Esplanade du Général de Gaulle
92800 Puteaux – 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.
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