RILSAN®
FINE POWDERS

TECHNICAL DATA SHEET

RILSAN® PA11 T SILVER 1047

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.

TYPE

PA11

POTENTIAL APPLICATIONS

- Powder coating - dish washer basket
- Powder coating- wire goods

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Fluidized Bed Dipping

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE*	UNIT	TEST STANDARD
Hardness, shore D	- / 70		ISO 868
Coating impact	- / ≥ 2	J	ASTM G14
Persoz hardness	- / 180		ISO 1522
Abrasion resistance	- / 11	mg	ISO 9352

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

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	183-188	°C	ISO 11357-1/-3

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OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Covering efficiency (300 µm)	0.31	kg/m²	Internal Arkema
Approximate RAL number	9022		
Salt spray test	Good adhesion after 2000 hours		ISO 9227
Coating density, 20°C (68°F)	1.03	g/cm³	ISO 1183-1
Apparent density, non compacted	0.5	g/cm³	ISO 1068
Apparent density, compacted	0.62	g/cm³	ISO 1068
Particle Size Distribution (PSD), median particle size (D50)	100 - 130	µm	ISO 13320
Particle Size Distribution (PSD), fine particles (< 40 µm)	5.9	%	ISO 13320
Particle Size Distribution (PSD), coarse particles (> 254 µm)	4.8	%	ISO 13320
Water absorption, after 24h at 23°C (73°F) / Water	≤ 1	%	ISO 62

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

REGIONAL AVAILABILITY

World

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

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