+135-3858-6433 (GuangDong)
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RILSAN®

TECHNICAL DATA SHEET

RILSAN® PA11 T SILVER 9108

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

MAIN APPLICATIONS

- Powder Coating - Dish Washer Basket

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Fluidized Bed Dipping

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	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)	- / 180		ISO 1522
Taber abrasion, Wheel CS 17, load 1 kg, 1000 cycles	- / 10	mg	ISO 9352

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

THERMAL PROPERTIES

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

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Covering efficiency (300 µm)	0.36	kg/m²	Internal Arkema
Water absorption, 24h	≤ 1	%	ISO 62
Median particles (D50)	100-130	µm	ISO 13320
Approximate RAL number	9023		
Salt spray test	Good adhesion after 2000 hours		ISO 9227
Median particles (D50)	100-130	µm	ISO 13320
Specific gravity of coating, 20°C (68°F)	1.03	g/cm³	ISO 1183-1
Particle Size Distribution (PSD), Fine particles (≤ 40 µm)	1	%	ISO 13320
Particle Size Distribution (PSD), Coarse particles (> 254 µm)	7	%	ISO 13320
Apparent density, Non compacted	0.50		ISO 1068
Apparent density, Compacted	0.61		ISO 1068

PACKAGING

Available packaging:
- 850 kg / 1870 lb rigid containers

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