+135-3858-6433 (GuangDong)
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RILSAN®

TECHNICAL DATA SHEET

RILSAN® PA11 ES NAT MAC

POLYAMIDE 11 POWDER

RILSAN® electrostatic spray powders are thermoplastic polyamides obtained from renewable resources.
Outstanding characteristics: abrasion resistance, corrosion resistance, impact resistance, sound reduction, flexibility, low coefficient of friction.

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

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Median particles (D50)	30	µm	ISO 13320
Apparent density, Non compacted	0.43		ISO 1068
Apparent density, Compacted	0.63		ISO 1068
Covering efficiency (120 µm)	0.14	kg/m²	Internal Arkema
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
Water absorption, 24h	≤ 1	%	ISO 62
Specific gravity of coating, 20°C (68°F)	1.04	g/cm³	ISO 1183-1

ARKEMA

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RILSAN® PA11 ES NAT MAC

PACKAGING

Available packaging:
- 20 kg / 44 lb bags

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