

TECHNICAL DATA SHEET

RILSAN® PA11 T BLUE 7174 MAC

POLYAMIDE 11 POWDER

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

Designation

- PA11

MAIN APPLICATIONS

- Water Fluid Coating - Water Accessories
- Automotive/Truck - Automotive Coating

Delivery Form

- Powder

Transformation Processes

- Fluidized Bed Dipping

Additives

- Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
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: Conditioned.

THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	183-188 °C	ISO 11357-1/-3
Vicat softening temperature, 50N at 50°C/h	181 °C (357.8 °F)	ISO 306

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	5013	
Specific gravity of coating, 20°C (68°F)	1.12 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)	4 %	ISO 13320
Particle Size Distribution (PSD), Coarse particles (> 254 µm)	9 %	ISO 13320
Salt spray test	Good adhesion after 2000 hours	ISO 9227

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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

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