

## TECHNICAL DATA SHEET

# RILSAN® PA11 ESY BLUE 7414

## 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.

### DESIGNATION

PA11

### MAIN APPLICATIONS

- Powder Coating - Others

### DELIVERY FORM

- Powder

### TRANSFORMATION PROCESSES

- Electrostatic spraying

### ADDITIVES

- Heat Stabilized

## MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Persoz, 23°C (73°F)	- / 270	ISO 1522
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	- / 17 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 (366.8 °F)	ISO 11357-1/-3
Vicat softening temperature, 50N at 50°C/h	181 °C	ISO 306

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Median particles (D50)	30 µm	ISO 13320
Water absorption, 24h	≤ 1 %	ISO 62
Approximate RAL number	5010	
Covering efficiency (100 µm)	0.20 kg/m <sup>2</sup>	Internal Arkema
Apparent density, Non compacted	0.44	ISO 1068
Apparent density, Compacted	0.62	ISO 1068
Particle Size Distribution (PSD) (Fine particles < 20 µm)	20 %	ISO 13320
Particle Size Distribution (PSD) (Coarse particles > 100 µm)	1 %	ISO 13320
Specific gravity of coating, 20°C (68°F)	1.18 g/cm <sup>3</sup>	ISO 1183-1
Salt spray test	Good adhesion after 2000 hours	ISO 9227

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## PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 20 kg / 44 lb bags

## SHELF LIFE

Two years from the 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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