

## TECHNICAL DATA SHEET

# RILSAN® PA11 ESY BLACK 7260

## POLYAMIDE 11 POWDER

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® ESY range is designed for coating metal parts using the electrostatic spraying process. They provide superior protection against wear, impact, corrosion, chemicals as well as graffiti. Please consult Arkema literature for application method and recommendations.

### DESIGNATION

PA11

### MAIN APPLICATIONS

- Others - Metal Powders Technology
- Automotive/Truck - Automotive Coating

### DELIVERY FORM

- Powder

### TRANSFORMATION PROCESSES

- Electrostatic spraying

### ADDITIVES

- Heat Stabilized

## MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Shore D, 23°C (73°F)	- / 72	ISO 868
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: Conditionned.

## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Vicat softening temperature, 50N at 50°C/h	181 °C	ISO 306
Melting temperature, 10°C/min	183-188 °C (366.8 °F)	ISO 11357-1/-3

## ELECTRICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Surface resistivity, 23°C (73,4°F)	- / 1.0E+14 ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 1.0E+12 ohm/m	IEC 62631-3-1

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

# RILSAN® PA11 ESY BLACK 7260

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Covering efficiency (100 µm)	0.20 kg/m <sup>2</sup>	Internal Arkema
Water absorption, Saturated in water at 23°C (73°F)	1.9 %	ISO 62
Median particles (D50)	30 µm	ISO 13320
Apparent density, Non compacted	0.43	ISO 1068
Approximate RAL number	9011	
Salt spray test	Good adhesion after 2000 hours	ISO 9227
Specific gravity of coating, 20°C (68°F)	1.19 g/cm <sup>3</sup>	ISO 1183-1
Apparent density, Compacted	0.63	ISO 1068
Particle Size Distribution (PSD) (Fine particles < 20 µm)	20 %	ISO 13320
Particle Size Distribution (PSD) (Coarse particles > 100 µm)	1 %	ISO 13320

## 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

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.  
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

[arkema.com](https://www.arkema.com)

**ARKEMA**