

### TECHNICAL DATA SHEET

### **RILSAN® PA11 ES NAT**

### **POLYAMIDE 11 POWDER**

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® ES 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	• Powder
MAIN APPLICATIONS	<ul><li>TRANSFORMATION PROCESSES</li><li>Electrostatic spraying</li></ul>
<ul> <li>Others - Metal Powders Technology</li> <li>Coating Additives - Others</li> <li>Automotive/Truck - Automotive Coating</li> <li>Others - Filtration</li> </ul>	ADDITIVES • Heat Stabilized

### **MECHANICAL PROPERTIES**

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Hardness, Shore D, 23°C (73°F)	- / 71	ISO 868
Hardness, Persoz, 23°C (73°F)	- / 270	ISO 1522
Abrasion resistance, 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	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
Covering efficiency (120 µm)	0.14 kg/m²	Internal Arkema
Water absorption, 24h	≤ 1 %	ISO 62
Median particles (D50)	30 µm	ISO 13320
Salt spray test	Good adhesion after 2000 hours	ISO 9227
Specific gravity of coating, 20°C (68°F)	1.04 g/cm <sup>3</sup>	ISO 1183-1
Apparent density, Non compacted	0.43	ISO 1068
Apparent density, Compacted	0.63	ISO 1068
Particle Size Distribution (PSD) (Fine particles < 20 $\mu$ m)	20 %	ISO 13320
Particle Size Distribution (PSD) (Coarse particles > 100 µm)	1 %	ISO 13320

## ARKEMA

# **RILSAN® PA11 ES NAT**

### PACKAGING

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

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ARKEMA

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