

TECHNICAL DATA SHEET

RILSAN® PA11 ESY ORANGE 7705

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. RILSAN® ESY ORANGE 7705 provides good electrical insulation, even at low thickness. It can be used in electrical applications such as busbar coatings.

DESIGNATION

PA11

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Electrostatic spraying

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
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	- / 25 mg	ISO 9352

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

속성	값	테스트 표준
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

THERMAL PROPERTIES ELECTRICAL PROPERTIES

속성	DRY / COND VALUE*	테스트 표준
Dielectric constant, 23°C (73,4°F)	- / 3.7	
Surface resistivity, 23°C (73,4°F)	/ 2.4E+14 ohm/sq	
Comparative tracking index, 23°C (73,4°F)	- / 600	IEC 60112

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OTHER PROPERTIES

속성	값	테스트 표준
Covering efficiency (100 µm)	0.12 kg/m ²	Internal Arkema
Water absorption, 24h	≤ 1 %	ISO 62
Median particles (D50)	30 µm	ISO 13320
Approximate RAL number	2003	
Salt spray test	Good adhesion after 2000 hours	ISO 9227
Specific gravity of coating, 20°C (68°F)	1.25 g/cm ³	ISO 1183-1
Particle Size Distribution (PSD) (Fine particles < 20 µm)	20 %	ISO 13320
Particle Size Distribution (PSD) (Coarse particles > 100 µm)	1 %	ISO 13320
Apparent density, Non compacted	0.44	ISO 1068
Apparent density, Compacted	0.62	ISO 1068

PACKAGING

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

- 21 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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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.

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