

TECHNICAL DATA SHEET

RILSAN® PA11 ESY GREY 7280

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

- Water Fluid Coating - Water Accessories
- Powder Coating- Wire Goods
- 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) | - / 71 | 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 |
|--|-------------------|----------------|
| 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 |

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OTHER PROPERTIES

| PROPERTIES | VALUE | TEST STANDARD |
|--|--------------------------------|-----------------|
| Covering efficiency (100 µm) | 0.20 kg/m ² | Internal Arkema |
| Water absorption, 24h | ≤ 1 % | ISO 62 |
| Median particles (D50) | 30 µm | ISO 13320 |
| Approximate RAL number | 7001 | |
| Salt spray test | Good adhesion after 2000 hours | ISO 9227 |
| Specific gravity of coating, 20°C (68°F) | 1.1 g/cm ³ | ISO 1183-1 |
| 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 |

賞味期限

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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