

TECHNICAL DATA SHEET

RILSAN® PA11 T GREY 7458

POLYAMIDE 11 POWDER

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® T range is designed for coating metal parts using the fluidized bed dip coating 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

- Powder Coating - Dish Washer Basket

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Fluidized Bed Dipping

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

| PROPERTIES | DRY / COND VALUE* | TEST STANDARD |
|--|-------------------|---------------|
| Hardness, Shore D, 23°C (73°F) | - / 70 | ISO 868 |
| Coating impact, 23°C (73°F) | - / ≥ 2 J | ASTM G14 |
| Hardness, Persoz, 23°C (73°F) | - / 180 | ISO 1522 |
| Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles | - / 11 mg | ISO 9352 |

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

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 |

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OTHER PROPERTIES

| PROPERTIES | VALUE | TEST STANDARD |
|---|--------------------------------|-----------------|
| Covering efficiency (300 µm) | 0.36 kg/m ² | Internal Arkema |
| Water absorption, 24h | ≤ 1 % | ISO 62 |
| Median particles (D50) | 100-130 µm | ISO 13320 |
| Approximate RAL number | 9018 | |
| Salt spray test | Good adhesion after 2000 hours | ISO 9227 |
| Specific gravity of coating, 20°C (68°F) | 1.06 g/cm ³ | ISO 1183-1 |
| Apparent density, Non compacted | 0.5 | ISO 1068 |
| Apparent density, Compacted | 0.61 | ISO 1068 |
| Particle Size Distribution (PSD), Fine particles (≤ 40 µm) | 5 % | ISO 13320 |
| Particle Size Distribution (PSD), Coarse particles (> 254 µm) | 5 % | ISO 13320 |

PACKAGING

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

- 25 kg / 55 lb bags
- 850 kg / 1870 lb rigid containers

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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