

TECHNICAL DATA SHEET

RILSAN® PA11 T BLACK 7450 AC

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

- Water Fluid Coating - Water Accessories
- Powder Coating - Renewable Energy
- Powder Coating - Dish Washer Basket
- Automotive/Truck - Automotive Coating

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Fluidized Bed Dipping

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

| PROPERTIES | DRY / COND VALUE* | UNIT | 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) | - / 250 | | ISO 1522 |
| Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles | - / 13 | mg | ISO 9352 |

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

THERMAL PROPERTIES

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

RILSAN® PA11 T BLACK 7450 AC

OTHER PROPERTIES

| PROPERTIES | VALUE | UNIT | TEST STANDARD |
|---|--------------------------------|-------------------|-----------------|
| Covering efficiency (300 µm) | 0.33 | kg/m ² | Internal Arkema |
| Water absorption, 24h | ≤ 1 | % | ISO 62 |
| Median particles (D50) | 100-130 | µm | ISO 13320 |
| Approximate RAL number | 9011 | | |
| Salt spray test | Good adhesion after 2000 hours | | ISO 9227 |
| Specific gravity of coating, 20°C (68°F) | 1.05 | g/cm ³ | ISO 1183-1 |
| Apparent density, Non compacted | 0.52 | | ISO 1068 |
| Apparent density, Compacted | 0.62 | | ISO 1068 |
| Particle Size Distribution (PSD), Fine particles (≤ 40 µm) | 4 | % | 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

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

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