

## TECHNICAL DATA SHEET

# RILSAN® PA11 T NAT 2P

## 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.

### TYPE

PA11

### MAIN APPLICATIONS

- Others - Metal Powders Technology
- Powder Coating- Wire Goods
- Coating Additives - Others
- Automotive And Transportation

### 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      |
| Taber abrasion, Wheel CS 17, load 1 kg, 1000 cycles | - / 13            | mg   | ISO 9352      |

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

## 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 NAT 2P

## OTHER PROPERTIES

| PROPERTIES  | VALUE                          | UNIT              | TEST STANDARD   |
|---|--------------------------------|-------------------|-----------------|
| Covering efficiency (300 µm)                                  | 0.33                           | kg/m <sup>2</sup> | Internal Arkema |
| Water absorption, 24h   | ≤ 1                            | %                 | ISO 62          |
| Median particles (D50)  | 100-130                        | µm                | ISO 13320       |
| Bio-based carbon content, Estimated                           | 100                            | %                 | ASTM D6866      |
| Salt spray test   | Good adhesion after 2000 hours |                   | ISO 9227        |
| Specific gravity of coating, 20°C (68°F)                      | 1.1                            | g/cm <sup>3</sup> | 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)    | 1                              | %                 | ISO 13320       |
| Particle Size Distribution (PSD), Coarse particles (> 254 µm) | 6                              | %                 | ISO 13320       |

## PACKAGING

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