

## TECHNICAL DATA SHEET

# RILSAN® PA11 T GREY 7017 BHV RX

## 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 - Printing Roller Coating

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Fluidized Bed Dipping

### ADDITIVES

- Heat Stabilized

## MECHANICAL PROPERTIES

| PROPERTIES   | DRY / COND VALUE* | TEST STANDARD |
|--|-------------------|---------------|
| Hardness, Persoz, 23°C (73°F)                            | - / 240           | ISO 1522      |
| Hardness, Shore D, 23°C (73°F)                           | - / 70            | ISO 868       |
| Coating impact, 23°C (73°F)                              | - / ≥ 2 J         | ASTM G14      |
| Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles | - / 15 mg         | ISO 9352      |

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

## THERMAL PROPERTIES

| PROPERTIES                                 | VALUE                 | TEST STANDARD  |
|--|-----------------------|----------------|
| Melting temperature, 10°C/min              | 183-188 °C (366.8 °F) | ISO 11357-1/-3 |
| Vicat softening temperature, 50N at 50°C/h | 181 °C                | ISO 306        |

## OTHER PROPERTIES

| PROPERTIES  | VALUE                          | TEST STANDARD |
|---|--------------------------------|---------------|
| Apparent density, Non compacted                               | 0.52                           | ISO 1068      |
| Apparent density, Compacted                                   | 0.62                           | ISO 1068      |
| Approximate RAL number  | 7016                           |               |
| Median particles (D50)  | 100-130 µm                     | ISO 13320     |
| Particle Size Distribution (PSD), Fine particles (≤ 40 µm)    | 8 %                            | ISO 13320     |
| Particle Size Distribution (PSD), Coarse particles (> 254 µm) | 10 %                           | ISO 13320     |
| Salt spray test   | Good adhesion after 2000 hours | ISO 9227      |
| Water absorption, 24h   | ≤ 1 %                          | ISO 62        |
| Specific gravity of coating, 20°C (68°F)                      | 1.05 g/cm <sup>3</sup>         | ISO 1183-1    |

# RILSAN® PA11 T GREY 7017 BHV RX

## PACKAGING

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

- 20 kg / 44 lb boxes

## 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.

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