

TECHNICAL DATA SHEET

RILSAN® NATURAL RDP 15-10 FB

POLYAMIDE 11 POWDER

RILSAN® fluidized bed powders are thermoplastic polyamides obtained from renewable resources. Outstanding characteristics: abrasion resistance, corrosion resistance, impact resistance, sound reduction, flexibility, low coefficient of friction.

DESIGNATION

PA11

MAIN APPLICATIONS

- Others - Metal Powders Technology

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Fluidized Bed Dipping

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

| PROPERTIES | DRY / COND VALUE* | TEST STANDARD |
|--|-------------------|---------------|
| Coating impact, 23°C (73°F) | - / 160 J | ASTM D2794 |
| Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles | - / 16 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 |

OTHER PROPERTIES

| PROPERTIES | VALUE | TEST STANDARD |
|--|--------------------------------|-----------------|
| Covering efficiency (300 µm) | 0.34 kg/m ² | Internal Arkema |
| Salt spray test | Good adhesion after 2000 hours | ISO 9227 |
| Particle Size Distribution (PSD) (Fine particles < 75 µm) | 15 % | ASTM D3451 |
| Particle Size Distribution (PSD) (Coarse particles > 212 µm) | 1 % | ASTM D3451 |
| Particle Size Distribution (PSD) (Coarse particles > 250 µm) | 0.1 % | ASTM D3451 |
| Specific gravity of coating, 20°C (68°F) | 1.11 g/cm ³ | ISO 1183-1 |
| Median particles (D50) | 115 µm | ISO 13320 |

PACKAGING

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

- 45 kg / 100 lb drums

RILSAN® NATURAL RDP 15-10 FB

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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