

# RILSAN® FINE POWDERS MC NAT

## Rilsan® Fine Powders MC NAT

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® MC range is designed for coating small items using the minicoat/maxicoat process, originally developed by Arkema to allow very high productivity. They provide superior protection against wear, impact, corrosion and chemicals. Please consult Arkema literature for application method and recommendations.

## MAIN CHARACTERISTICS

| PROPERTIES                                                             | VALUE                          | UNIT              | TEST STANDARD |
|------------------------------------------------------------------------|--------------------------------|-------------------|---------------|
| <b>THERMAL PROPERTIES</b>                                              |                                |                   |               |
| Vicat Softening Temperature, 50°C/h 50N                                | 181                            | °C                | ISO 306       |
| <b>POWDER PROPERTIES</b>                                               |                                |                   |               |
| Nature                                                                 | PA11                           | -                 | ISO 1218      |
| Color                                                                  | Natural                        | -                 | -             |
| Particle Size Distribution, ≤ 20µm                                     | 10                             | %                 | ISO 13320     |
| Particle Size Distribution, ≥ 80µm                                     | 6                              | %                 | ISO 13320     |
| Particle Size Distribution, Median Size                                | 30 - 60                        | µm                | ISO 13320     |
| Melting Temperature                                                    | 183 - 188                      | °C                | ISO 1218      |
| Vicat Point                                                            | 181                            | °C                | ISO 306       |
| Non Tapped Density                                                     | 0.49                           | -                 | ISO 1068      |
| Tapped Density                                                         | 0.67                           | -                 | ISO 1068      |
| <b>POWDER COATING PROPERTIES</b>                                       |                                |                   |               |
| Recommended Coating Thickness                                          | 150 - 200                      | µm                | -             |
| Covering Efficiency, 200µm                                             | 0.22                           | kg/m <sup>2</sup> | -             |
| Specific Gravity of Coating, 20°C                                      | 1.12                           | -                 | ISO 1183      |
| Persoz Hardness                                                        | 263                            | -                 | ISO 1522      |
| Shore D Hardness                                                       | 74                             | -                 | ISO 868       |
| Abrasion Resistance, Wheel CS 17, load 1 kg, 1000 cycles               | 10                             | mg                | ISO 9352      |
| Salt spray test according to surface preparation recommended by ARKEMA | Good adhesion after 2000 hours | -                 | ISO 9227      |

## MAIN APPLICATIONS

- Undergarment
- Laser application

## PACKAGING:

This grade is delivered in 20kg bags.

## SHELF LIFE:

Five years from the date of delivery. For any use after this limit, please refer to our technical services.

Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/en/products/product-safety/disclaimer/index.html>

**RILSAN®**  
FINE POWDERS  
BY ARKEMA

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## PROCESSING

Coating, Fluidized Bed Dipping, Minicoat/Maxicoat

## DELIVERY FORM

Powder

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SIC/11-2018

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