

# RILSAN® D40 NATURAL

RILSAN® D40 NAT is a polyamide 11 powder obtained from renewable resources with an average diameter of 27 - 31 µm.

RILSAN® D is a range of high performance fine polyamide powders used as multifunctional additives in coatings and varnishes.

The introduction of RILSAN® polyamide powders in formulations is easy thanks to their good dispersion capacity, their reduced impact on rheology and their low density.

RILSAN® polyamide powders are surface modifiers, specifically designed for texture creation.

Abrasion, scratch, impact resistances and flexibility of coatings, inks and varnishes can be significantly improved using RILSAN® polyamide powders.

| PROPERTIES                                     | VALUE       | UNIT      | TEST STANDARD   |
|--|-------------|-----------|-----------------|
| THERMAL PROPERTIES                             |             |           |                 |
| Melting Temperature, 10°C/min                  | 185         | °C        | ISO 11357-1/-3  |
| Vicat Softening Temperature, 50°C/h 50N        | 160         | °C        | ISO 306         |
|  | 320         | °F        |                 |
| Burning Behav. at 1.5 mm Nominal Thickness     | HB          | class     | IEC 60695-11-10 |
| Thickness Tested                               | 1.6         | mm        | -               |
|  | 0.0630      | in        |                 |
| Burning Behav. at Thickness h                  | V-2         | class     | IEC 60695-11-10 |
| Thickness Tested                               | 3.2         | mm        | -               |
|  | 0.1260      | in        |                 |
| ELECTRICAL PROPERTIES                          |             |           |                 |
| Volume Resistivity                             | 1E12        | Ohm*<br>m | IEC 62631-3-1   |
| Surface Resistivity                            | 1E14        | Ohm       | IEC 62631-3-2   |
| Dielectric (Electric) Strength                 | 30          | kV/mm     | IEC 60243-1     |
|  | 762         | kV/in     |                 |
| OTHER PROPERTIES                               |             |           |                 |
| Water Absorption, 23°C, immersion, equilibrium | 1.9         | %         | ISO 62          |
| Density  | 1040        | kg/m³     | ISO 1183        |
|  | 1.04        | g/cm³     |                 |
| POWDER PROPERTIES                              |             |           |                 |
| Particle Size Distribution, Median Size        | 27 - 31     | mm        | -               |
|  | 1.06 - 1.22 | in        |                 |
| Melting Temperature                            | 186         | °C        | ISO 1218        |
|  | 367         | °F        |                 |
| Non Tapped Density                             | 0.37        | -         | ISO 1068        |
| POWDER COATING PROPERTIES                      |             |           |                 |

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Trade and Companies Register under the number 319 632 790 SDC/11-2018  
Source: automatically generated TDS from Material Database on 20-02-2024

# RILSAN®

## D40 NATURAL

|                                   |      |   |          |
|-----------------------------------|------|---|----------|
| Specific Gravity of Coating, 20°C | 1.04 | - | ISO 1183 |
| Water Absorption, 24h             | ≤1   | % | ISO 62   |

### APPLICATION PROPERTIES

- **Texturing agent (rough texture)** Texture depends on amount of Orgasol® polyamide powder, dry coating thickness and conditions of curing.
- **Abrasion & Scratch resistance improvement** reinforces the mechanical properties of the coating
- **Compatible with most resins used in coating industry** suitable for solvent-based, water-based and 100% solid UV-curable systems
- **Compliant with FDA regulations (FDA 177-1500 and FDA 175-300)**

### MAIN APPLICATIONS:

- Coil coating
- Wood coating
- Plastic coating

### PACKAGING

This grade is delivered in 20kg bag.

### SHELF LIFE

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

|  |   |
|--|---|
| <b>PROCESSING</b><br><br>Coating   | Headquarters:<br><br>Arkema France<br>420 rue d'Estienne d'Orves<br>92705 Colombes Cedex France<br>T +33 (0)1 49 00 80 80<br>hpp.arkema.com |
| <b>DELIVERY FORM</b><br><br>Powder   |   |
| <b>REGIONAL AVAILABILITY</b><br><br>North America, Europe, Asia Pacific, South and Central America, Near East/Africa | Arkema Inc. – High Performance Polymers<br><br>900 First Avenue<br>King of Prussia, PA 19406<br>Tel.: +1 610 205 7000<br>hpp.arkema.com     |
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