

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.

MAIN CHARACTERISTICS

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
Burning Behav. at 1.5 mm Nominal Thickness	HB	class	IEC 60695-11-10
Thickness Tested	1.6	mm	-
Burning Behav. at Thickness h	V-2	class	IEC 60695-11-10
Thickness Tested	3.2	mm	-
ELECTRICAL PROPERTIES			
Volume Resistivity	1E12	Ohm*m	IEC 60093
Surface Resistivity	1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	30	kV/mm	IEC 60243-1
OTHER PROPERTIES			
Water Absorption	1.9	%	Sim. to ISO 62
Density	1040	kg/m ³	ISO 1183
POWDER PROPERTIES			
Particle Size Distribution, Median Size	27 - 31	μm	ISO 13320
Melting Temperature	186	°C	ISO 1218
Non Tapped Density	0.37	-	ISO 1068
POWDER COATING PROPERTIES			
Specific Gravity of Coating, 20°C	1.04	-	ISO 1183
Water Absorption, 24h	≤1	%	ISO 62-1

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

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RILSAN®
BY **ARKEMA**

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RILSAN® D40 NATURAL

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.

PROCESSING

Coating

DELIVERY FORM

Powder

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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rilsan.com

Arkema Inc. – Technical Polymers

900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-america.com

RILSAN®
BY ARKEMA

Headquarters: Arkema France

420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com