

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* 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

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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.

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DELIVERY FORM Powder	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com

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