+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)

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	НВ	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 60093		
Surface Resistivity	1E14	Ohm	IEC 60093		
Dielectric (Electric) Strength	30	kV/mm	IEC 60243-1		
	762	kV/in			
OTHER PROPERTIES					
Water Absorption	1.9	%	Sim. to ISO 62		
Density	1040	kg/m³	ISO 1183		
	1.04	g/cm³			
POWDER PROPERTIES					
Particle Size Distribution, Median Size	27 - 31	μm	ISO 13320		
	0.00106 - 0.00122	in			
Melting Temperature	186	°C	ISO 1218		
	367	°F			
Non Tapped Density	0.37	-	ISO 1068		



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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)

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•	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.

PROCESSING	
Coating	
DELIVERY FORM	
Powder	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

