

TECHNICAL DATA SHEET

RILSAN® PA11 D40 NAT

POLYAMIDE 11 POWDER

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.

DESIGNATION

PA11

MAIN APPLICATIONS

- Coating Additives - Others
- Coating Additives - Wood
- Coating Additives - Flooring
- Coating Additives - Coil Coating

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Formulation ingredients

ADDITIVES

- Heat Stabilized

THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Vicat softening temperature, 50N at 50°C/h	160 °C	ISO 306
Melting temperature, 10°C/min	183-188 °C (366.8 °F)	ISO 11357-1/-3

ELECTRICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Surface resistivity, 23°C (73,4°F)	- / 1.0E+14 ohm/sq	IEC 62631-3-2
Volumic (transversal) resistivity, 23°C (73,4°F)	- / 1.0E+12 ohm/m	IEC 62631-3-1
Dielectric Strength, 23°C (73,4°F)	/ 30 kV/mm	IEC 60243-1

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditioned.

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Median particles (D50)	27-31 µm	ISO 13319
Water absorption, Saturated in water at 23°C (73°F)	1.9 %	ISO 62
Apparent density, Non compacted	0.37	ISO 1068
Specific gravity of coating, 20°C (68°F)	1.04 g/cm ³	ISO 1183-1

PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 20 kg / 44 lb bags

RILSAN® PA11 D40 NAT

SHELF LIFE

Five years shelf life from date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

SPECIAL CHARACTERISTICS

- Bio-based

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