RILSAN®

TECHNICAL DATA SHEET

RILSAN® PA11 T BLUE T19 BHV RX

POLYAMIDE 11 POWDER

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® T range is designed for coating metal parts using the fluidized bed dip coating process. They provide superior protection against wear, impact, corrosion, chemicals as well as graffiti. Please consult Arkema literature for application method and recommendations.

TYPE

PA11

MAIN APPLICATIONS

• Powder Coating - Printing Roller Coating

DELIVERY FORM

• Pellets

TRANSFORMATION PROCESSES

• Fluidized Bed Dipping

ADDITIVES

• Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Hardness, Persoz, 23°C (73°F)	- / 240		ISO 1522
Hardness, Shore D, 23°C (73°F)	- / 70		ISO 868
Coating impact, 23°C (73°F)	- / ≥ 2	J	ASTM G14
Taber abrasion, Wheel CS 17, load 1 kg, 1000 cycles	- / 15	mg	ISO 9352

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

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	183–188	°C	ISO 11357-1/-3
Vicat softening temperature, 50N at 50°C/h	181	°C	ISO 306

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Apparent density, Non compacted	0.52		ISO 1068
Apparent density, Compacted	0.62		ISO 1068
Median particles (D50)	100-130	µm	ISO 13320
Particle Size Distribution (PSD), Fine particles (≤ 40 µm)	1	%	ISO 13320
Particle Size Distribution (PSD), Coarse particles (> 254 µm)	7	%	ISO 13320
Covering efficiency (300 µm)	0.36	kg/m²	Internal Arkema
Specific gravity of coating, 20°C (68°F)	1.2	g/cm³	ISO 1183-1
Water absorption, 24h	≤ 1	%	ISO 62
Approximate RAL number	5015		
Salt spray test	Good adhesion after 2000 hours		ISO 9227

PACKAGING

Available packaging:
*   20 kg / 44 lb bags

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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