

TECHNICAL DATA SHEET

RILSAN® PA11 T BLUE 2682 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.

DESIGNATION

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*	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
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	- / 15 mg	ISO 9352

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

THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	183-188 °C (366.8 °F)	ISO 11357-1/-3
Vicat softening temperature, 50N at 50°C/h	181 °C	ISO 306

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OTHER PROPERTIES

PROPERTIES	VALUE	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/m ²	Internal Arkema
Specific gravity of coating, 20°C (68°F)	1.2 g/cm ³	ISO 1183-1
Water absorption, 24h	≤ 1 %	ISO 62
Approximate RAL number	5015	
Salt spray test	Good adhesion after 2000 hours	ISO 9227

SPECIAL CHARACTERISTICS

- Bio-based

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