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RILSAN®

TECHNICAL DATA SHEET

RILSAN® PA11 MC BLACK 820 MAC

POLYAMIDE 11 POWDER

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® MC range is designed for coating small items using the minicoat/maxicoat process, originally developed by Arkema to allow very high productivity. They provide superior protection against wear, impact, corrosion and chemicals. Please consult Arkema literature for application method and recommendations.

TYPE

PA11

MAIN APPLICATIONS

- Water Fluid Coating - Water Accessories
- Powder Coating - Undergarment
- Coating Additives - Wood
- Automotive/Truck - Automotive Coating

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Minicoat / Maxicoat

ADDITIVES

- Heat Stabilized

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Hardness, Shore D, 23°C (73°F)	- / 74		ISO 868
Hardness, Persoz, 23°C (73°F)	- / 263		ISO 1522
Taber abrasion, Wheel CS 17, load 1 kg, 1000 cycles	- / 10	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

ARKEMA

RILSAN® PA11 MC BLACK 820 MAC

OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Covering efficiency (100 µm)	0.22	kg/m²	Internal Arkema
Median particles (D50)	30-60	µm	ISO 13320
Approximate RAL number	9005		
Salt spray test	Good adhesion after 2000 hours		ISO 9227
Specific gravity of coating, 20°C (68°F)	1.12	g/cm³	ISO 1183-1
Apparent density, Non compacted	0.49		ISO 1068
Apparent density, Compacted	0.67		ISO 1068
Particle Size Distribution (PSD) (Fine particles < 20 µm)	8	%	ISO 13320
Particle Size Distribution (PSD) (Coarse particles > 80 µm)	10	%	ISO 13320

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