

# TECHNICAL DATA SHEET

# **RILSAN® PA11 T GREY 5161 MAC**

# **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**

- Water Fluid Coating Water AccessoriesWater Fluid Coating Piping Systems
- Powder Coating Renewable Energy
- Powder Coating
- Powder Coating- Wire Goods
- Automotive/Truck Automotive Coating

# **Delivery Form**

Powder

#### **Transformation Processes**

• Fluidized Bed Dipping

#### **Additives**

• Heat Stabilized

# **MECHANICAL PROPERTIES**

| PROPERTIES   | DRY / COND VALUE* | TEST STANDARD |
|--|-------------------|---------------|
| Hardness, Shore D, 23°C (73°F)                           | - / 74            | ISO 868       |
| Coating impact, 23°C (73°F)                              | - / ≥ 2 J         | ASTM G14      |
| Hardness, Persoz, 23°C (73°F)                            | - / 280           | ISO 1522      |
| Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles | - / 13 mg         | ISO 9352      |

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

#### THERMAL PROPERTIES

| PROPERTIES                    | VALUE      | TEST STANDARD  |
|-------------------------------|------------|----------------|
| Melting temperature, 10°C/min | 183-188 °C | ISO 11357-1/-3 |



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# **OTHER PROPERTIES**

| PROPERTIES  | VALUE                          | TEST STANDARD   |
|---|--------------------------------|-----------------|
| Covering efficiency (300 µm)                                  | 0.35 kg/m²                     | Internal Arkema |
| Water absorption, 24h   | ≤ 1 %                          | ISO 62          |
| Median particles (D50)  | 100-130 μm                     | ISO 13320       |
| Approximate RAL number  | 7001                           |                 |
| Salt spray test   | Good adhesion after 2000 hours | ISO 9227        |
| Specific gravity of coating, 20°C (68°F)                      | 1.17 g/cm³                     | ISO 1183-1      |
| Apparent density, Non compacted                               | 0.57                           | ISO 1068        |
| Apparent density, Compacted                                   | 0.69                           | ISO 1068        |
| Particle Size Distribution (PSD), Fine particles (≤ 40 µm)    | 1 %                            | ISO 13320       |
| Particle Size Distribution (PSD), Coarse particles (> 254 μm) | 7 %                            | ISO 13320       |

# **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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