# PA12 RILSAMID AMVO

Arkema

Reference catalog 2026 - Upgraded Template

## Resin Overview (Upgraded Template)

PA12 · 聚酰胺 12 (Upgraded)

## This Grade

| | |
|---|---|
| **Manufacturer** | Arkema |
| **Category** | PA12 · 聚酰胺 12 (Upgraded) |
| **Typical Use** | Reference grade for 聚酰胺 12 (Upgraded) |

## Key Properties (8 metrics)

| | |
|---|---|
| **Density** | 1.01 g/cm3 |
| **MVR (235°C/5 kg)** | 20 cm3/10min |
| **Melting Point (DSC)** | 178 °C |
| **Tensile Strength at Yield** | 50 MPa |
| **Elongation at Break** | 200% |
| **HDT (0.45 MPa)** | 120 °C |
| **Moisture Absorption (saturation)** | 0.7% |
| **Continuous Use Temperature** | 100 °C |

## Key Features

- Lowest moisture absorption among PA
- High flexibility at low temp
- Chemical resistance to fuels
- Easy processing for extrusion

## Processing Conditions

| | |
|---|---|
| **Melt Temperature** | 210-270 °C |

| | |
|---|---|
| **Mold Temperature** | 40-80 °C |
| **Drying** | 4-6 h @ 80 °C in desiccant dryer |
| **Processing Methods** | Injection molding, extrusion |

## Typical Applications

- Automotive fuel lines
- Flexible tubing
- Pneumatic systems
- 3D printing (SLS)

## Regulatory & Compliance

- RoHS compliant
- REACH registered
- FDA food contact grades available

> Data from public manufacturer catalogs. Verify before procurement.

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