

## TECHNICAL DATA SHEET

# RILSAMID® AESN BLACK P202 T6L

## POLYAMIDE 12 PELLET

RILSAMID® AESN BLACK P202 T6L is a polyamide 12 compound. This plasticized and impact-modified high temperature grade is specially designed for automotive fluid transfer line applications.

**Designation :** ISO 16396 - PA12-IP, EG1HL, C22-004

### DESIGNATION

PA12-IP

### MAIN APPLICATIONS

- Auto - Gasoline Lines
- Auto - Diesel Lines

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Extrusion - General
- Tube Extrusion

### ADDITIVES

- Heat Stabilized
- Light Stabilized
- Plasticizer

## RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	14 cm <sup>3</sup> /10min	ISO 1133

## MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Tensile modulus, 23°C (73°F), 1 mm/min	440 / 440 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 28 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 25 %	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	- / > 50 %	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	- / 391 MPa	ISO 178
Charpy unnotched impact strength, 23°C (73°F)	- / No Break	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No Break / No Break	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	No Break / No Break	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 4 kJ/m <sup>2</sup>	ISO 179 1eA

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

## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	173 °C	ISO 11357-1/-3

# RILSAMID® AESN BLACK P202 T6L

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.03 g/cm <sup>3</sup>	ISO 1183-1

## PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 25 kg / 55 lb bags
- 550 kg rigid containers

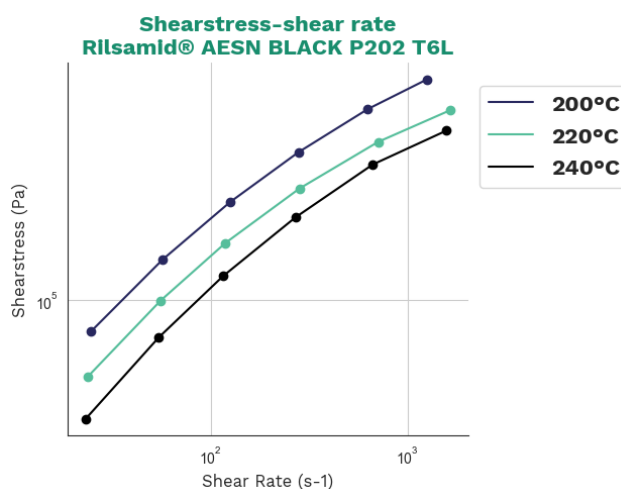
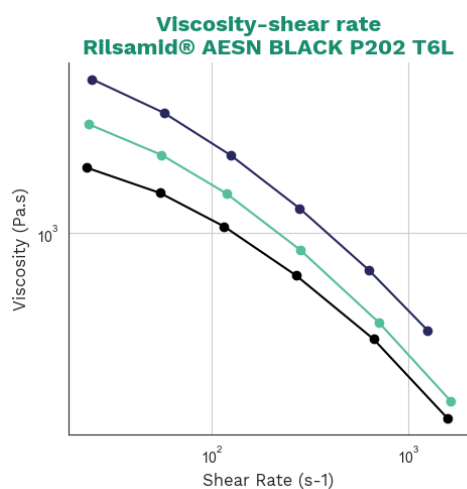
## SHELF LIFE

Two years from the 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.

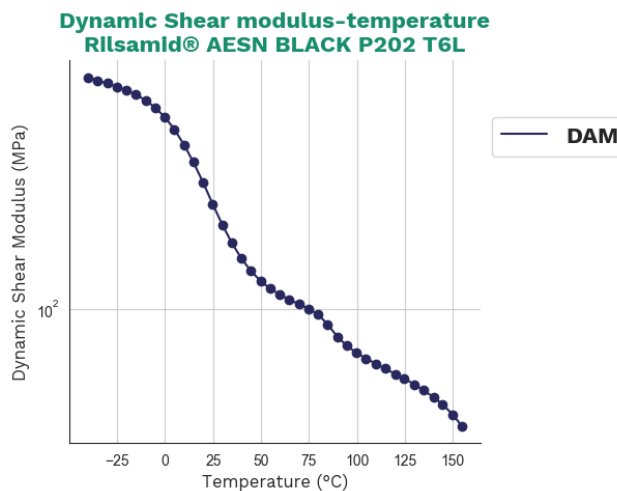
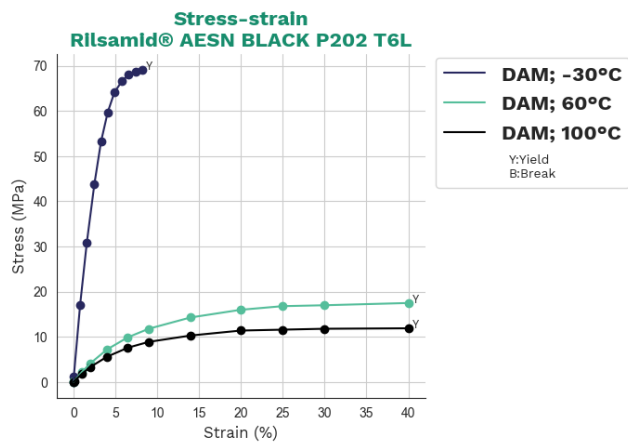
## PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 230°C / 250°C / 270°C (445°F / 480°F / 520°F)
- Typical mold temperature - Injection molding: 20-60°C (70-140°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

## DIAGRAMS



# RILSAMID® AESN BLACK P202 T6L



**Headquarter: Arkema France**  
 420, rue d'Estienne d'Orves  
 92705 Colombes Cedex – France  
 T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.  
 Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

**ARKEMA**