

# RILSAMID® AESN BLACK P110 TL

ISO 16396 - PA12-HI, EGHL, C24-010

**Rilsamid® AESN BLACK P110 TL resin** is a semi-rigid polyamide with improved hydrolysis and impact resistance. This black colored grade is designed for tube extrusion.

## MAIN CHARACTERISTICS

| PROPERTIES                            | DRY / COND   | UNIT                   | TEST STANDARD  |
|---------------------------------------|--------------|------------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>         |              |                        |                |
| Melt Volume-Flow Rate                 | 0.4 / *      | cm <sup>3</sup> /10min | ISO 1133       |
| Temperature                           | 275 / *      | °C                     | -              |
| Load                                  | 5 / *        | kg                     | -              |
| <b>MECHANICAL PROPERTIES</b>          |              |                        |                |
| Tensile Modulus                       | - / 1120     | MPa                    | ISO 527-1/-2   |
| Yield stress                          | - / 32       | MPa                    | ISO 527-1/-2   |
| Yield strain                          | - / 13       | %                      | ISO 527-1/-2   |
| Nominal Strain at Break               | - / >50      | %                      | ISO 527-1/-2   |
| Charpy Impact Strength, +23°C         | - / No Break | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy Impact Strength, -30°C         | - / No Break | kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Charpy Notched Impact Strength, +23°C | - / 75       | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| Charpy Notched Impact Strength, -30°C | - / 18       | kJ/m <sup>2</sup>      | ISO 179/1eA    |
| <b>THERMAL PROPERTIES</b>             |              |                        |                |
| Melting Temperature, 10°C/min         | 176 / *      | °C                     | ISO 11357-1/-3 |
| <b>OTHER PROPERTIES</b>               |              |                        |                |
| Density                               | 1000 / 1000  | kg/m <sup>3</sup>      | ISO 1183       |

## MAIN APPLICATIONS:

- Fuel line
- Tubing for use in motor vehicles

## PACAKAGING:

This material is delivered in sealed packaging (800 kg rigid containers) ready to be processed.

## SHELF LIFE:

Two years from date of delivery. For any use above this limit, please refer to our technical services.

## Processing conditions for extrusion :

- Typical melt temperature (Min / Recommended / Max) : 260°C / 270°C / 280°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80°C.

## PROCESSING

Profile Extrusion, Other Extrusion, Blow Molding

## SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

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## DELIVERY FORM

Pellets

## ADDITIVES

Lubricants

## REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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