

# RILSAMID® AESN Noir P302 TL

Rilsamid® AESN Noir P302 TL is a black coloured polyamide. This grade is plasticized and designed for tube extrusion. AESN Noir P302 TL falls into the PA12-HIPHL category according to DIN 73378.

## MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
<b>Nature &amp; Designation</b>	<b>PA12-HIP, EHL, 22-004</b>		ISO 1874
<b>Density</b>	<b>1.03</b>	g/cm <sup>3</sup>	ISO 1183
<b>Melting Point</b>	<b>173</b>	°C	ISO 11357
<b>Melt Volume Index (235°C, 5 kg)</b>	<b>18</b>	cm <sup>3</sup> /10 min	ISO 11357
<b>Hardness (*)</b> Instantaneous After 15 s	<b>71</b> <b>64</b>	Shore D Shore D	ISO 868
<b>Tensile Test (*)</b> Stress at Yield Strain at Yield Stress at Break Strain at Break	<b>25</b> <b>26</b> <b>54</b> <b>&gt; 200</b>	MPa % MPa %	ISO 527
<b>Tensile Modulus (*)</b>	<b>400</b>	MPa	ISO 527
<b>Flexural Modulus (*)</b>	<b>350 - 450</b>	MPa	ISO 178
<b>Charpy Impact (*)</b> Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	<b>No break</b> <b>No break</b> <b>No break</b> <b>6</b>	<b>kJ/m<sup>2</sup></b> <b>kJ/m<sup>2</sup></b> <b>kJ/m<sup>2</sup></b> <b>kJ/m<sup>2</sup></b>	ISO 179
<b>TABER abrasion (*) CS-17, 1000g, 1000 rev.</b>	<b>6</b>	mg	ISO 9352

(\*) Samples conditioned 15 days at 23°C - 50 % R.H.

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## MAIN APPLICATIONS

- Air brake.
- Tubing for use in motor vehicles.

## PROCESSING CONDITIONS

Conditions	Typical values
<b>Extrusion</b> Melt Temperature (Min / Recommended / Max)	<b>200°C / 220°C / 240°C</b>
<b>Drying (only necessary for bags/containers opened for more than two hours)</b> Time Temperature	<b>4 - 6 hours</b> <b>80 °C</b>

## PACKAGING

This grade is delivered dried in sealed packaging (25 kg bags / 550 kg rigid containers) ready to be processed.

## SHELF LIFE

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

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See Safety Data Sheet for Health & Safety Considerations.