

**Product Texts**

ISO 16396 - PA12-P, EGHL, C22-004

**Rilsamid® AESN BLACK P40 TL resin** is a black plasticized grade designed for tube extrusion.

**Rilsamid® AESN BLACK P40 TL resin** falls into the PA12-PHL category according to DIN 73378.

**Main applications:**

\* Air brake.

\* Tubing for use in motor vehicles.

**Packaging:**

This grade is delivered dried in sealed packaging (25 kg bags) 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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	<b>10 / *</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>235 / *</b>	°C	-
Load	<b>5 / *</b>	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>- / 445</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>- / 27</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>- / 27</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>- / &gt;50</b>	%	ISO 527
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>- / 5</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Shore D hardness	<b>62 / *</b>	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>174 / *</b>	°C	ISO 11357-1/-3

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Density	<b>1030 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Profile Extrusion, Other Extrusion

**Special Characteristics**

Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

**Delivery form**

Pellets, Black

**Regional Availability**North America, Europe, Asia Pacific, South and Central America,  
Near East/Africa**Additives**

Plasticizer

**Other text information****Other extrusion****Processing conditions, Extrusion:**

- Typical Melt temperature (Min / Recommended / Max) : 210°C / 230°C / 260°C
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4 - 8 hours at 80°C