

RILSAMID® AESN Noir P40 TL

Rilsamid® AESN Noir P40 TL is a black coloured polyamide. This grade is plasticized and designed for tube extrusion. AESN Noir P40 TL falls into the PA12-PHL category according to DIN 73378.

MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
Nature & Designation	PA12-P, EHL, 22-004		ISO 1874
Density	1.03	g/cm ³	ISO 1183
Melting Point	174	°C	ISO 11357
Melt Volume Index (235°C, 5 kg)	10	cm ³ /10 min	ISO 11357
Hardness (*) Instantaneous After 15 s	70 62	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Yield Strain at Yield Stress at Break Strain at Break	27 27 47 > 200	MPa % MPa %	ISO 527
Tensile Modulus (*)	445	MPa	ISO 527
Flexural Modulus (*)	350 - 450	MPa	ISO 178
Charpy Impact (*) Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	No break No break No break 5	 kJ/m ² kJ/m ² kJ/m ² kJ/m ²	 ISO 179
TABER abrasion (*) CS-17, 1000g, 1000 rev.	9	mg	ISO 9352

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

RILSAMID® AESN Noir P40 TL

MAIN APPLICATIONS

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

PROCESSING CONDITIONS

Conditions	Typical values
Extrusion Melt Temperature (Min / Recommended / Max)	210°C / 230°C / 260°C
Drying (only necessary for bags opened for more than two hours) Time Temperature	4 - 6 hours 80 °C

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.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

See Safety Data Sheet for Health & Safety Considerations.