

# RILSAMID® AESN BLACK P302 TL

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

**Rilsamid® AESN BLACK P302 TL resin** is a black colored polyamide 12.  
This grade is plasticized and designed for tube extrusion.

**Rilsamid® AESN BLACK P302 TL resin** falls into the PA12-HIPHL category according to DIN 73378.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	18 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 400	MPa	ISO 527-1/-2
	- / 58000	psi	
Yield Stress	- / 25	MPa	ISO 527-1/-2
	- / 3630	psi	
Yield Strain	- / 26	%	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	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 2.85	ftlb/in <sup>2</sup>	
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	172 / *	°C	ISO 11357-1/-3
<b>OTHER PROPERTIES</b>			
Density	1030 / 1030	kg/m <sup>3</sup>	ISO 1183
	1.03 / 1.03	g/cm <sup>3</sup>	

## MAIN APPLICATIONS:

Air brake.  
Tubing for use in motor vehicles

## PACKAGING:

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

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## **SHELF LIFE:**

Two years from the 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) : 200°C / 220°C / 240°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80°C.

<b>PROCESSING</b> Profile Extrusion, Other Extrusion	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
<b>DELIVERY FORM</b> Pellets	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
<b>ADDITIVES</b> Lubricants, Plasticizer	
<b>SPECIAL CHARACTERISTICS</b> Heat Stabilized, Light Stabilized	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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