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
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	18 / *	cm³/10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
MECHANICAL PROPERTIES			
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/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m²	ISO 179/1eA
	- / 2.85	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	172 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1030 / 1030	kg/m³	ISO 1183
	1.03 / 1.03	g/cm³	

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.

PROCESSING
Profile Extrusion, Other Extrusion

DELIVERY FORM
Pellets

ADDITIVES
Lubricants, Plasticizer

SPECIAL CHARACTERISTICS
Heat Stabilized, Light Stabilized

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

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