

# RILSAMID<sup>®</sup>

## AESNO P401 TL

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

Rilsamid<sup>®</sup> AESNO P401 TL resin is a natural polyamide.

This grade is plasticized and designed for tube extrusion.

Rilsamid<sup>®</sup> AESNO P401 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	13 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 360	MPa	ISO 527-1/-2
	- / 52200	psi	
Stress at 50% Strain	- / 24	MPa	ISO 527-1/-2
	- / 3480	psi	
Strain at Break	- / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	46 / No Break	kJ/m <sup>2</sup>	ISO 179/1eA
	21.9 / No Break	ftlb/in <sup>2</sup>	
Charpy Notched Impact Strength, -30°C	4 / 8	kJ/m <sup>2</sup>	ISO 179/1eA
	1.9 / 3.81	ftlb/in <sup>2</sup>	
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	174 / *	°C	ISO 11357-1/-3
<b>ELECTRICAL PROPERTIES</b>			
Dielectric (Electric) Strength	41 / -	kV/mm	IEC 60243-1
	1040 / -	kV/in	
Comparative Tracking Index	600 / -	-	IEC 60112
<b>OTHER PROPERTIES</b>			
Water Absorption, 23°C, immersion, equilibrium	1.2 / *	%	ISO 62
Density	1030 / -	kg/m <sup>3</sup>	ISO 1183
	1.03 / -	g/cm <sup>3</sup>	

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 Source: automatically generated TDS from Material Database on 12-08-2024

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### MAIN APPLICATIONS:

Tubings

### PACKAGING:

This grade is delivered dried in sealed packaging (44 lb bags / 1000 lb 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.

### Processing conditions for extrusion :

- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 270°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80°C.

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