

Product Texts

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

Rilsamid® AESNO P401 TL resin is a natural polyamide.
This grade is plasticized and designed for tube extrusion.

Rilsamid® AESNO P401 TL resin falls into the PA12-HIPHL category according to DIN 73378.

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/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	13 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	- / 360	MPa	ISO 527
^[C] Stress at 50% strain	- / 24	MPa	ISO 527
^[C] Strain at break	- / >50	%	ISO 527
^[C] Charpy notched impact strength, +23°C	46 / -	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	4 / 8	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

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

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	41 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.2 / *	%	Sim. to ISO 62
^[C] Density	1030 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 6	h	-
Melt temperature	230 - 270	°C	-

Characteristics

Processing

Pipe/Tube Extrusion

Additives

Plasticizer

Regional Availability

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

Other text information

Other extrusion

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.