

# RILSAMID®

## AECNO TL

ISO 16396 - PA12, KGHL, C12-010

**Rilsamid® AECNO TL resin** is a natural polyamide 12.  
This grade is designed for cable coating.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
MECHANICAL PROPERTIES			
Tensile Modulus	- / 1250	MPa	ISO 527-1/-2
	- / 181000	psi	
Yield Stress	- / 43	MPa	ISO 527-1/-2
	- / 6240	psi	
Yield Strain	- / 5	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Shore D Hardness, after 15 s	71 / *	-	ISO 868
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	- / 5	kJ/m²	ISO 179/1eA
	- / 2.38	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 7	kJ/m²	ISO 179/1eA
	- / 3.33	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1010 / 1010	kg/m³	ISO 1183
	1.01 / 1.01	g/cm³	

### MAIN APPLICATIONS:

- Wire and cable sheathing

### 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.

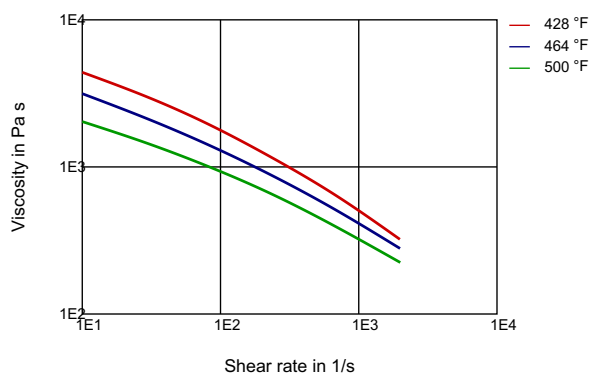
Arkema France - A French "société anonyme", registered in the Nanterre (France) Trade and Companies Register under the number 319 632 790 SDC/11-2018  
Source: automatically generated TDS from Material Database on 20-02-2024

# RILSAMID<sup>®</sup>

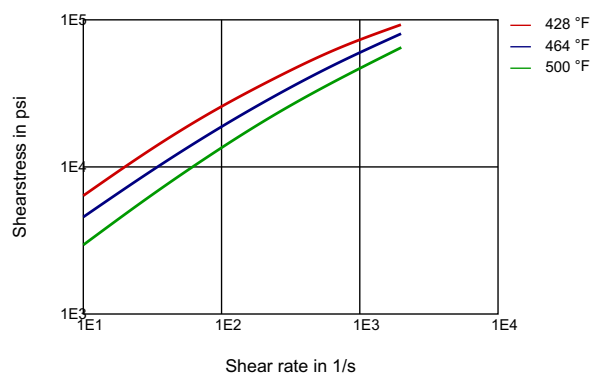
## AECNO TL

### DIAGRAMS

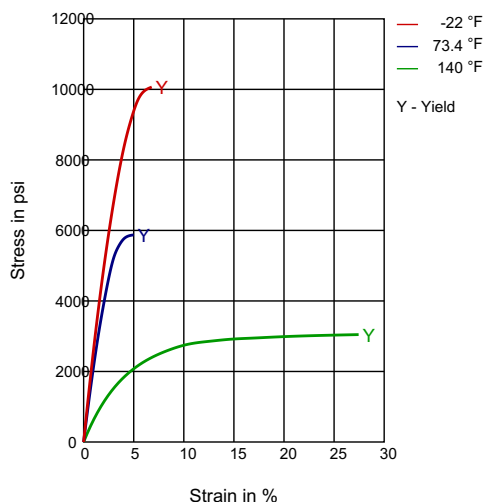
#### VISCOSITY-SHEAR RATE



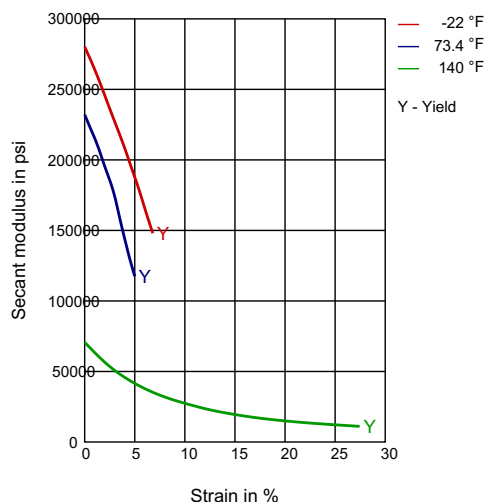
#### SHEARSTRESS-SHEAR RATE



#### STRESS-STRAIN



#### SECANT MODULUS-STRAIN



#### Processing conditions:

Typical melt temperature (Min / recommended / Max): 240°C / 250°C / 260°C

Drying time and temperature (only necessary for bags opened more than two hours): 4 - 8 hours at 80°C

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<b>PROCESSING</b> Injection Molding, Other Extrusion, Coating	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 <a href="http://hpp.arkema.com">hpp.arkema.com</a>  Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 <a href="http://hpp.arkema.com">hpp.arkema.com</a>
<b>DELIVERY FORM</b> Pellets	
<b>ADDITIVES</b> Lubricants	
<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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