

RILSAMID® AESNO TL

PA12, EHL, 22-010

Rilsamid® AESNO TL resin is a rigid polyamide with high viscosity. This natural grade is designed for tube extrusion.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	8 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	1500 / 1440	MPa	ISO 527-1/-2
Yield stress	50 / 43	MPa	ISO 527-1/-2
Yield strain	5 / 5	%	ISO 527-1/-2
Nominal Strain at Break	>50 / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / N	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / N	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 11	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 6	kJ/m ²	ISO 179/1eA
Puncture - Maximum Force, -30°C	- / 4800	N	ISO 6603-2
Puncture Energy, -30°C	- / 60	J	ISO 6603-2
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	180 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	55 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	135 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	142 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Thickness Tested	1.6 / *	mm	-
Burning Behav. at Thickness h	V-2 / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
Oxygen Index	22 / *	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Volume Resistivity	- / 1E12	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.6 / *	%	Sim. to ISO 62

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Density

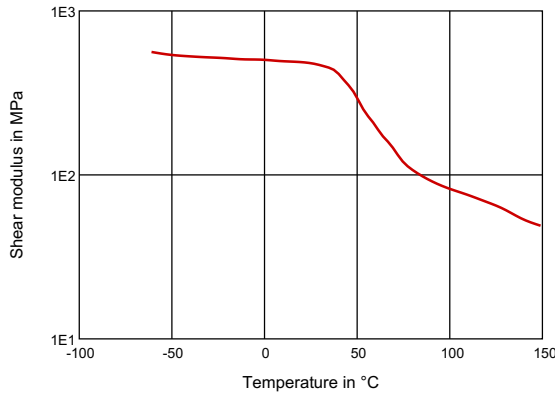
1010 / 1010

kg/m³

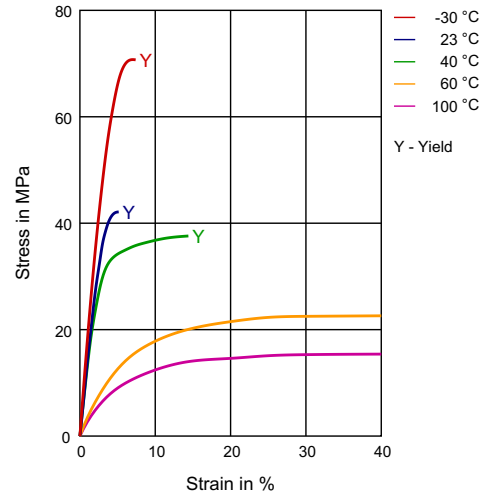
ISO 1183

DIAGRAMS

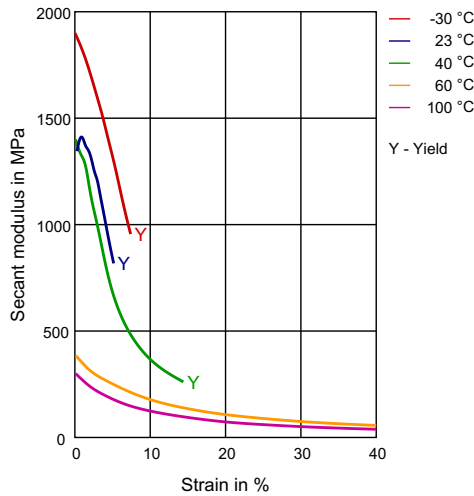
DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



SECANT MODULUS-STRAIN



PROCESSING

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized, UV Stable

RILSAMID® AESNO TL

DELIVERY FORM

Pellets

ADDITIVES

Lubricants

REGIONAL AVAILABILITY

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

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