

RILSAMID® AMVO TLD

PA12, MHLR, 16-010

Rilsamid® AMVO TLD resin is a natural polyamide. This grade is designed for injection moulding.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	18 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	1400 / 1260	MPa	ISO 527-1/-2
Yield stress	44 / 42	MPa	ISO 527-1/-2
Yield strain	7 / 7	%	ISO 527-1/-2
Nominal Strain at Break	> 50 / > 50	%	ISO 527-1/-2
Shore D Hardness, 15s	72 / *	-	ISO 7619-1
Charpy Impact Strength, +23°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	5 / 5	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	5 / 6	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	178 / *	°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
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
Density	1010 / 1010	kg/m ³	ISO 1183

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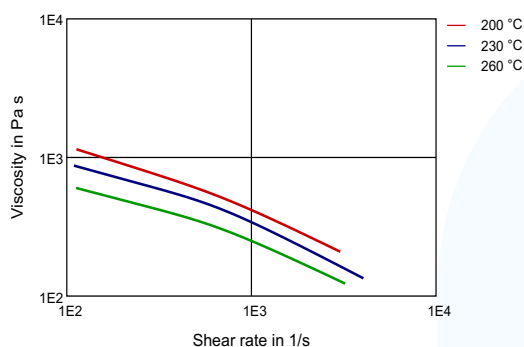
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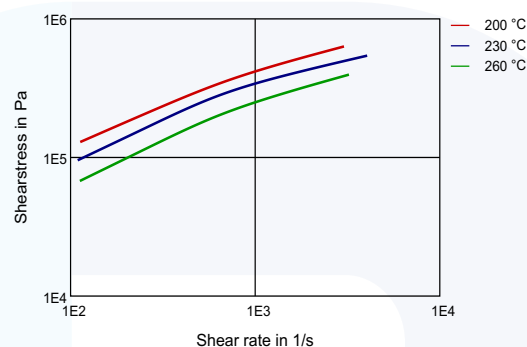
RILSAMID® AMVO TLD

DIAGRAMS

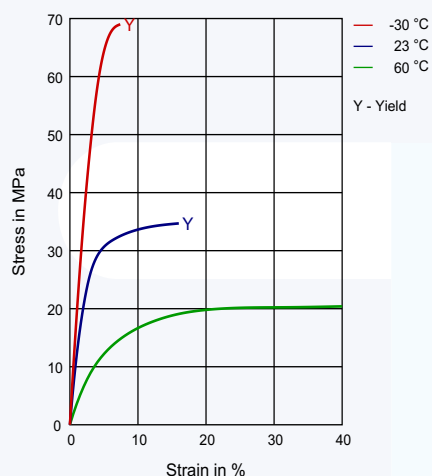
VISCOSITY-SHEAR RATE



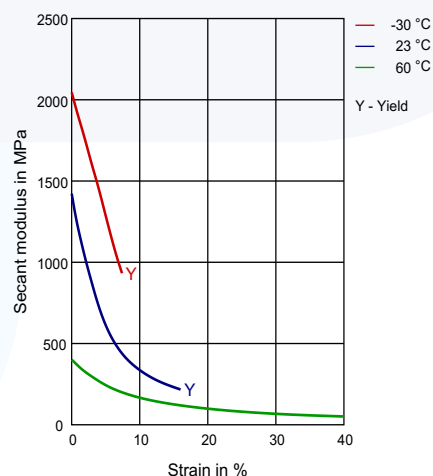
SHEARSTRESS-SHEAR RATE



STRESS-STRAIN



SECANT MODULUS-STRAIN



PROCESSING

Injection Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

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

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ADDITIVES

Release agent

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SIC/11-2018

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