

RILSAMID® AMNO P20 TLD

PA12-P, MHLR, 12-005

Rilsamid® AMNO P20 TLD resin is a natural polyamide. This grade is plasticized and designed for injection molding.

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	44 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	620 / 550	MPa	ISO 527-1/-2
Yield stress	31 / 30	MPa	ISO 527-1/-2
Yield strain	20 / 20	%	ISO 527-1/-2
Nominal Strain at Break	> 50 / > 50	%	ISO 527-1/-2
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	9 / 14	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	3 / 3	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	173 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	48 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	130 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	134 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	120 / *	E-6/K	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	8 / -	-	IEC 60250
Relative Permittivity, 1MHz	4 / -	-	IEC 60250
Dissipation Factor, 100Hz	2010 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	595 / -	E-4	IEC 60250
Volume Resistivity	- / 1E10	Ohm*m	IEC 60093
Surface Resistivity	* / 1E12	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 26	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.4 / *	%	Sim. to ISO 62
Density	1020 / 1020	kg/m ³	ISO 1183

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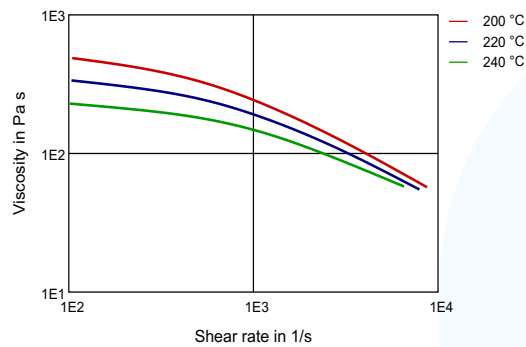
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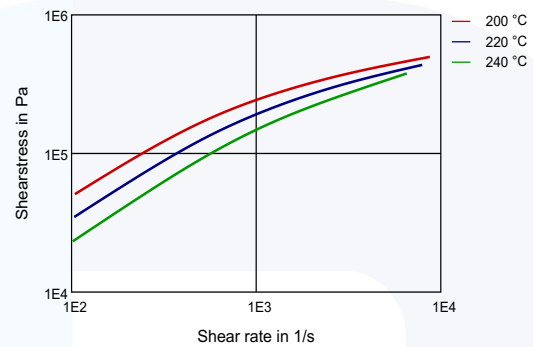
RILSAMID® AMNO P20 TLD

DIAGRAMS

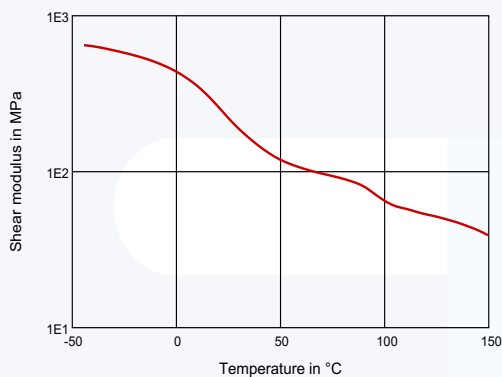
VISCOSITY-SHEAR RATE



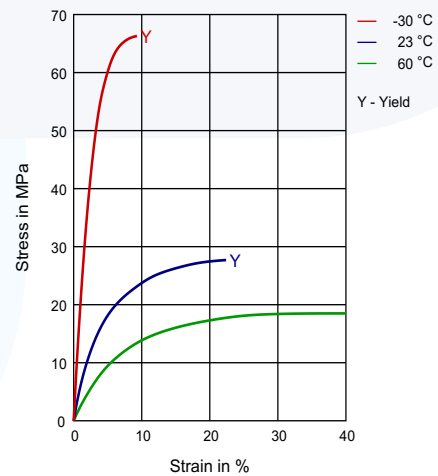
SHEARSTRESS-SHEAR RATE



DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



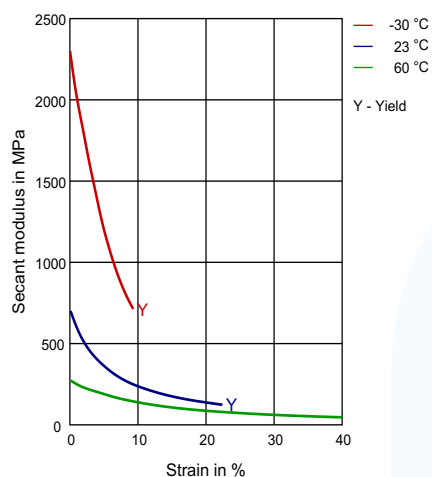
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SECANT MODULUS-STRAIN



PROCESSING

Injection Molding

DELIVERY FORM

Pellets

ADDITIVES

Release agent, Plasticizer

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

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

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