

RILSAMID® AMNO P40 TLD

PA12-P, MHLR, 12-004

Rilsamid® AMNO P40 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	51 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
MECHANICAL PROPERTIES			
Tensile Modulus	440 / 420	MPa	ISO 527-1/-2
Yield stress	26 / 24	MPa	ISO 527-1/-2
Yield strain	26 / 26	%	ISO 527-1/-2
Nominal Strain at Break	> 50 / > 50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 25	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 4	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	171 / *	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	46 / *	°C	ISO 75-1/-2
Temp. of Deflection Under Load, 0.45 MPa	125 / *	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	132 / *	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	140 / *	E-6/K	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	12 / -	-	IEC 60250
Relative Permittivity, 1MHz	4 / -	-	IEC 60250
Dissipation Factor, 100Hz	2550 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	1290 / -	E-4	IEC 60250
Volume Resistivity	- / 1E9	Ohm*m	IEC 60093
Surface Resistivity	* / 5E11	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 24	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.2 / *	%	Sim. to ISO 62
Density	1040 / 1040	kg/m ³	ISO 1183

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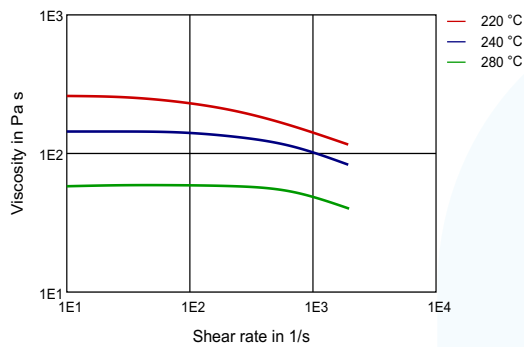
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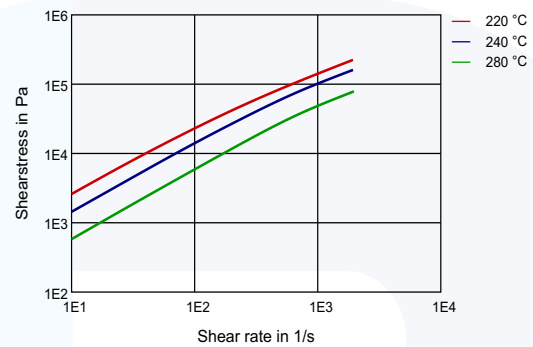
RILSAMID® AMNO P40 TLD

DIAGRAMS

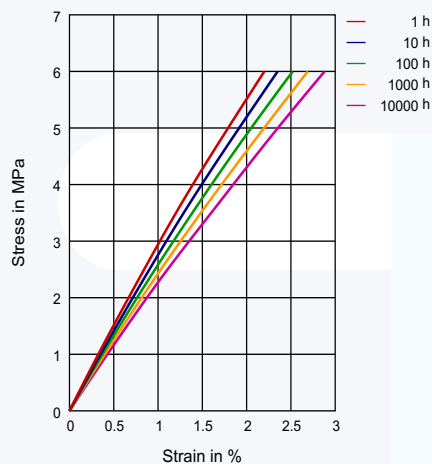
VISCOSITY-SHEAR RATE



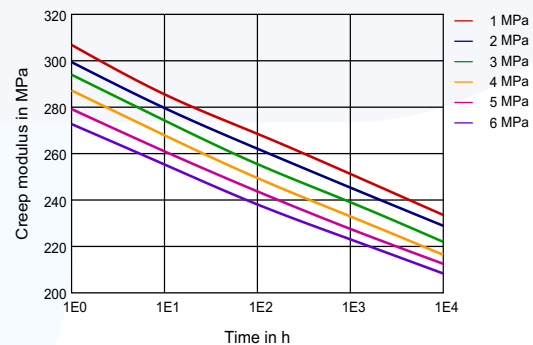
SHEARSTRESS-SHEAR RATE



STRESS-STRAIN (ISOCHRONOUS) 23°C



CREEP MODULUS-TIME 23°C



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, Plasticizer

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