

RILSAMID® AMNO TLD

PA12, MHLR, 12-010

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

MAIN CHARACTERISTICS

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	57 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-
Molding Shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	1450 / 1170	MPa	ISO 527-1/-2
Yield stress	42 / 38	MPa	ISO 527-1/-2
Yield strain	7 / 7	%	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	- / 9	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 5	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	130 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Thermal Expansion, normal	120 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	HB / *	class	IEC 60695-11-10
Burning Behav. at Thickness h	V-2 / *	class	IEC 60695-11-10
Thickness Tested	3.2 / *	mm	-
Yellow Card available	yes / *	-	-
Oxygen Index	22 / *	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	4 / -	-	IEC 60250
Relative Permittivity, 1MHz	3 / -	-	IEC 60250
Dissipation Factor, 100Hz	779 / -	E-4	IEC 60250
Dissipation Factor, 1MHz	290 / -	E-4	IEC 60250

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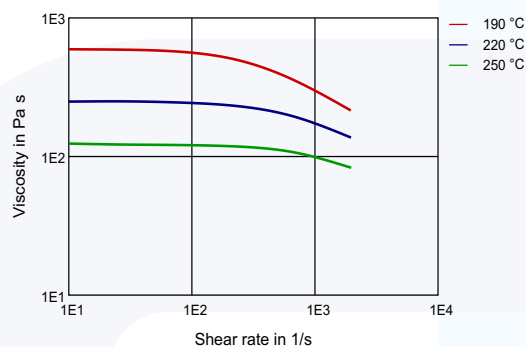
RILSAMID®
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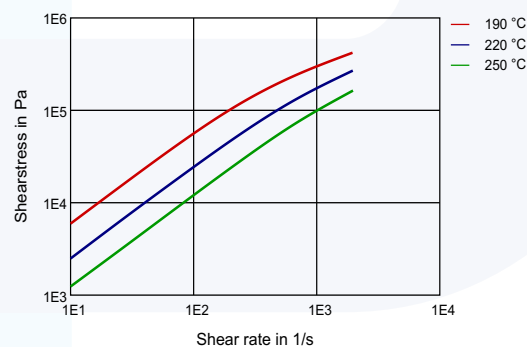
Volume Resistivity	- / 1E12	Ohm*m	IEC 60093
Surface Resistivity	* / 1E14	Ohm	IEC 60093
Dielectric (Electric) Strength	- / 30	kV/mm	IEC 60243-1
Comparative Tracking Index	* / 600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	1.8 / *	%	Sim. to ISO 62
Humidity Absorption	0.7 / *	%	Sim. to ISO 62
Density	1020 / 1020	kg/m ³	ISO 1183

DIAGRAMS

VISCOSITY-SHEAR RATE



SHEARSTRESS-SHEAR RATE



PROCESSING

Injection Molding

DELIVERY FORM

Pellets

ADDITIVES

Release agent

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

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

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