

Novamid[®] 1010N2

PA6 FR(30)

Injection Molding, Flame Retardant (halogen free)

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	1 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.1 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3600 / 1500	MPa	ISO 527-1/-2
Yield stress	- / 50	MPa	ISO 527-1/-2
Yield strain	- / 22	%	ISO 527-1/-2
Nominal strain at break	- / >50	%	ISO 527-1/-2
Stress at break	80 / -	MPa	ISO 527-1/-2
Strain at break	3.2 / -	%	ISO 527-1/-2
Flexural modulus	3600 / 1400	MPa	ISO 178
Flexural strength	120 / 47	MPa	ISO 178
Charpy impact strength (+23°C)	90 / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 12	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Temp. of deflection under load (1.80 MPa)	70 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	192 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.6 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10

Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Thickness tested	3 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	960 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	3 / –	mm	IEC 60695-2-12
 <i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Relative permittivity (100Hz)	4 / –	–	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / –	–	IEC 62631-2-1
Dissipation factor (100 Hz)	80 / –	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	190 / –	E-4	IEC 62631-2-1
Volume resistivity	>1E13 / –	Ohm*m	IEC 62631-3-1
Surface resistivity	– / 2E14	Ohm	IEC 62631-3-2
Electric strength	26 / –	kV/mm	IEC 60243-1
Comparative tracking index	575 / –	V	IEC 60112
 <i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1160 / –	kg/m ³	ISO 1183