

Novamid® 1010N2 1ES NAT

PA6 FR(30)

Injection Molding, Flame Retardant (halogen free)

Print Date: 2018-12-13

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 / 1800	MPa	ISO 527-1/-2
Yield stress	80 / 50	MPa	ISO 527-1/-2
Nominal strain at break	4.8 / 17	%	ISO 527-1/-2
Flexural modulus	3600 / 1800	MPa	ISO 178
Flexural strength	120 / 55	MPa	ISO 178
Charpy impact strength (+23°C)	90 / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 10	kJ/m ²	ISO 179/1eA
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
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)	0.7 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	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

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Properties	Typical Data	Unit	Test Method
Electrical properties	dry / cond		
Relative permittivity (100Hz)	4 / -	-	IEC 60250
Relative permittivity (1 MHz)	4 / -	-	IEC 60250
Dissipation factor (100 Hz)	100 / -	E-4	IEC 60250
Dissipation factor (1 MHz)	200 / -	E-4	IEC 60250
Volume resistivity	1E13 / -	Ohm*m	IEC 60093
Surface resistivity	* / 2E14	Ohm	IEC 60093
Electric strength	26 / -	kV/mm	IEC 60243-1
Comparative tracking index	550 / -	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1160 / -	kg/m ³	ISO 1183