

# Novamid<sup>®</sup> 1013GH30 1 NA/BK701

## PA6–GF30

30% Glass Reinforced, Heat Stabilized, Injection Molding

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	1 / *	%	ISO 294–4
<b><i>MECHANICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Tensile modulus	9600 / 6000	MPa	ISO 527–1/–2
Stress at break	170 / 110	MPa	ISO 527–1/–2
Strain at break	3.3 / 5	%	ISO 527–1/–2
Flexural modulus	9200 / 5800	MPa	ISO 178
Flexural strength	260 / 170	MPa	ISO 178
Charpy impact strength (+23°C)	81 / 90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 19	kJ/m <sup>2</sup>	ISO 179/1eA
<b><i>THERMAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7 / *	E–4/°C	ISO 11359–1/–2
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<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)	140 / –	E–4	IEC 62631–2–1

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Dissipation factor (1 MHz)	210 / –	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	27 / –	kV/mm	IEC 60243-1
Comparative tracking index	475 / –	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1360 / –	kg/m <sup>3</sup>	ISO 1183