

# Novamid<sup>®</sup> 1010GN2-30 NAT/BK37

## PA6-GF30 FR(17)

30% Glass Reinforced, Flame Retardant

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>RHEOLOGICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Tensile modulus	12100 / 8700	MPa	ISO 527-1/-2
Stress at break	160 / 130	MPa	ISO 527-1/-2
Strain at break	1.7 / 2.5	%	ISO 527-1/-2
Flexural modulus	11500 / 8600	MPa	ISO 178
Flexural strength	260 / 210	MPa	ISO 178
Charpy impact strength (+23°C)	54 / 64	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / 14	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	213 / *	°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)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2
Glow Wire Flammability Index GWFI	960 / -	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	3 / -	mm	IEC 60695-2-12
<b>ELECTRICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Relative permittivity (100Hz)	5 / -	-	IEC 62631-2-1

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Relative permittivity (1 MHz)	4 / –	–	IEC 62631–2–1
Dissipation factor (100 Hz)	130 / –	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	190 / –	E–4	IEC 62631–2–1
Volume resistivity	6E12 / –	Ohm*m	IEC 62631–3–1
Surface resistivity	– / 6E13	Ohm	IEC 62631–3–2
Electric strength	23 / –	kV/mm	IEC 60243–1
Comparative tracking index	225 / –	V	IEC 60112
<b><i>OTHER PROPERTIES</i></b>	<b><i>DRY / COND</i></b>		
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1660 / –	kg/m <sup>3</sup>	ISO 1183