

# Novamid® 1010GN2-30 NAT/BK37

## PA6-GF30 FR(17)

30% Glass Reinforced, Flame Retardant

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
	dry / cond		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.9 / *	%	ISO 294-4
<b>Mechanical properties</b>			
	dry / cond		
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>			
	dry / cond		
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
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	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
<b>Electrical properties</b>	<b>dry / cond</b>		
Relative permittivity (100Hz)	5 / -	-	IEC 60250
Relative permittivity (1 MHz)	4 / -	-	IEC 60250
Dissipation factor (100 Hz)	130 / -	E-4	IEC 60250
Dissipation factor (1 MHz)	190 / -	E-4	IEC 60250
Volume resistivity	6E12 / -	Ohm*m	IEC 60093
Surface resistivity	* / 6E13	Ohm	IEC 60093
Electric strength	23 / -	kV/mm	IEC 60243-1
Comparative tracking index	225 / -	V	IEC 60112
<b>Other properties</b>	<b>dry / cond</b>		
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1660 / -	kg/m <sup>3</sup>	ISO 1183