

# Novamid® 1010GN2-20 NAT/BK37

## PA6-GF20 FR(17)

20% Glass Reinforced, Flame Retardant

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
	dry / cond		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
<b>Mechanical properties</b>			
	dry / cond		
Tensile modulus	9200 / -	MPa	ISO 527-1/-2
Stress at break	135 / -	MPa	ISO 527-1/-2
Strain at break	2.1 / -	%	ISO 527-1/-2
Flexural modulus	7700 / 6000	MPa	ISO 178
Flexural strength	205 / 165	MPa	ISO 178
Charpy impact strength (+23°C)	38 / 55	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 11	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)	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
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
<b>Electrical properties</b>			
	dry / cond		
Relative permittivity (1 MHz)	4 / -	-	IEC 60250

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Dissipation factor (1 MHz)	200 / -	E-4	IEC 60250
Volume resistivity	8E12 / -	Ohm*m	IEC 60093
Surface resistivity	* / 8E12	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	1.5 / *	%	Sim. to ISO 62
Density	1540 / -	kg/m <sup>3</sup>	ISO 1183