

Novamid[®] 1013GH30 1 NA/BK701

PA6—GF30

30% Glass Reinforced, Heat Stabilized, Injection Molding

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
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/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 19	kJ/m²	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)	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
ELECTRICAL PROPERTIES			
	DRY / COND		
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



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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
OTHER PROPERTIES			
	DRY / COND		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1360 / –	kg/m³	ISO 1183

