Novamid®

Novamid® 1013G30 1 NA

PA6-GF30

30% Glass Reinforced, Injection Molding

Print Date: 2018-12-13

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)	80 / 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
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
Electrical properties	dry / cond		
Relative permittivity (100Hz)	4 / -	-	IEC 60250

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Relative permittivity (1 MHz)	4 / -	-	IEC 60250
Dissipation factor (100 Hz)	140 / -	E-4	IEC 60250
Dissipation factor (1 MHz)	210 / -	E-4	IEC 60250
Volume resistivity	>1E13 / -	Ohm*m	IEC 60093
Surface resistivity	* / 2E14	Ohm	IEC 60093
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