

Novamid® 1013G45 1 NA

PA6-GF45

45% Glass Reinforced, Injection Molding

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.2 / *	%	ISO 294-4
Molding shrinkage (normal)	0.8 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	13600 / 9000	MPa	ISO 527-1/-2
Stress at break	220 / 150	MPa	ISO 527-1/-2
Strain at break	3 / 5	%	ISO 527-1/-2
Flexural modulus	13600 / 9000	MPa	ISO 178
Flexural strength	355 / 250	MPa	ISO 178
Charpy impact strength (+23°C)	110 / 120	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	18 / 27	kJ/m ²	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)	209 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-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)	5 / -	-	IEC 60250
Relative permittivity (1 MHz)	4 / -	-	IEC 60250
Dissipation factor (100 Hz)	280 / -	E-4	IEC 60250

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Dissipation factor (1 MHz)	240 / -	E-4	IEC 60250
Volume resistivity	2E12 / -	Ohm*m	IEC 60093
Surface resistivity	* / 3E13	Ohm	IEC 60093
Electric strength	27 / -	kV/mm	IEC 60243-1
Comparative tracking index	400 / -	V	IEC 60112
Other properties			
	dry / cond		
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1490 / -	kg/m ³	ISO 1183