

Novamid[®] 1013GH45 1 NA/BK701

PA6–GF45

45% Glass Reinforced, Heat Stabilized, Injection Molding

Print Date: 2024–03–27

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
ELECTRICAL PROPERTIES			
	DRY / COND		
Relative permittivity (100Hz)	5 / –	–	IEC 62631–2–1
Relative permittivity (1 MHz)	4 / –	–	IEC 62631–2–1
Dissipation factor (100 Hz)	280 / –	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	240 / –	E–4	IEC 62631–2–1
Volume resistivity	2E12 / –	Ohm*m	IEC 62631–3–1

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Surface resistivity	– / 3E13	Ohm	IEC 62631-3-2
Electric strength	27 / –	kV/mm	IEC 60243-1
Comparative tracking index	400 / –	V	IEC 60112
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1490 / –	kg/m ³	ISO 1183

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