Property Data

Envalior
Imagine the Future

Novamid® 1013GH15 1 NA/BK37

PA6–GF15

15% Glass Reinforced, Heat Stabilized, Injection Molding

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	DRY / COND		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294–4
Molding shrinkage (normal)	1.3 / *	%	ISO 294–4
MECHANICAL PROPERTIES	DRY / COND		
Tensile modulus	5800 / 3300	MPa	ISO 527–1/–2
Stress at break	130 / 75	MPa	ISO 527–1/–2
Strain at break	2.7 / 8.7	%	ISO 527–1/–2
Flexural modulus	5400 / 3000	MPa	ISO 178
Flexural strength	200 / 120	MPa	ISO 178
Charpy impact strength (+23°C)	39 / 105	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 14	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)	194 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	216 / *	°C	ISO 75–1/–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)	130 / –	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	230 / –	E–4	IEC 62631–2–1
Volume resistivity	6E12 / –	Ohm*m	IEC 62631–3–1

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PROPERTIES	*TYPICAL DATA*	*UNIT*	*TEST METHOD*
Surface resistivity	– / 8E13	Ohm	IEC 62631–3–2
Electric strength	27 / –	kV/mm	IEC 60243–1
Comparative tracking index	400 / –	V	IEC 60112

OTHER PROPERTIES	*DRY / COND*		
Humidity absorption	2.4 / *	%	Sim. to ISO 62
Density	1230 / –	kg/m³	ISO 1183