Property Data

Envalior
Imagine the Future

Novamid® 1010C2

PA6

Injection Molding, High Flow, Easy Molding Grade, Lubricated, Nucleated

Print Date: 2026-08-11

Good and fast flow-ability. Easy mold release. Smooth surface appearance. Ideal for injection molding.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**DRY / COND**		
Molding shrinkage [parallel]	1.2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.3 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES	**DRY / COND**		
Tensile modulus	3100 / 1700	MPa	ISO 527-1/-2
Yield stress	85 / 54	MPa	ISO 527-1/-2
Yield strain	4.2 / 21	%	ISO 527-1/-2
Strain at break	15 / >50	%	ISO 527-1/-2
Flexural modulus	2900 / 1000	MPa	ISO 178
Flexural strength	110 / 50	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.8 / 16	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	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)	61 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	150 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.7 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Thickness tested	1.5 / *	mm	IEC 60695–11–10
Burning Behav. at 3.0 mm nom. thickn.	V–2 / *	class	IEC 60695–11–10
Thickness tested	3 / *	mm	IEC 60695–11–10
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)	110 / –	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	230 / –	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	600 / –	V	IEC 60112
OTHER PROPERTIES	**DRY / COND**		
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	1130 / –	kg/m³	ISO 1183
MATERIAL SPECIFIC PROPERTIES	**DRY / COND**		
Viscosity number	118 / *	cm³/g	ISO 307, 1157, 1628

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