Property Data

Envalior
Imagine the Future

Novamid® 1013C5

PA6

Injection Molding, Molding Release, Improved Processing, Lubricated, Nucleated

Print Date: 2025-10-04

Good and fast flow-ability. Very easy mold release. Medium viscosity in injection molding grades. Ideal for high cycle injection molding production.

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 / 1300	MPa	ISO 527-1/-2
Yield stress	82 / 50	MPa	ISO 527-1/-2
Nominal strain at break	18 / >50	%	ISO 527-1/-2
Flexural modulus	2800 / 1100	MPa	ISO 178
Flexural strength	110 / 54	MPa	ISO 178
Charpy impact strength (+23°C)	N / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 26	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)	75 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	169 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
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	V-2 / *	mm	IEC 60695-11-10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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)	220 / –	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	26 / –	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	133 / *	cm³/g	ISO 307, 1157, 1628

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Viscosity–shear rate