

Novamid[®] 1010C2

PA6

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

Print Date: 2024-03-27

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/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.8 / 16	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	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)	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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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
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
<i>ELECTRICAL PROPERTIES</i>		<i>DRY / COND</i>	
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
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m ³	ISO 1183
<i>MATERIAL SPECIFIC PROPERTIES</i>		<i>DRY / COND</i>	
Viscosity number	118 / *	cm ³ /g	ISO 307, 1157, 1628

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