

Novamid® 1013C5

PA6

Injection Molding, Easy Molding Grade

Print Date: 2018-12-13

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/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / 26	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)	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	0.81 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
Electrical properties			
	dry / cond		
Relative permittivity (100Hz)	4 / -	-	IEC 60250

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Relative permittivity (1 MHz)	4 / -	-	IEC 60250
Dissipation factor (100 Hz)	110 / -	E-4	IEC 60250
Dissipation factor (1 MHz)	220 / -	E-4	IEC 60250
Volume resistivity	>1E13 / -	Ohm*m	IEC 60093
Surface resistivity	* / 2E14	Ohm	IEC 60093
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/m ³	ISO 1183

Material specific properties

dry / cond

Viscosity number	138 / *	cm ³ /g	ISO 307, 1157, 1628
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Viscosity-shear rate

