

Novamid[®] 1010CH1

PA6

Low Viscosity, Injection Molding

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
MECHANICAL PROPERTIES			
	<i>DRY / COND</i>		
Tensile modulus	3100 / –	MPa	ISO 527-1/-2
Yield stress	85 / –	MPa	ISO 527-1/-2
Yield strain	4 / –	%	ISO 527-1/-2
Nominal strain at break	12 / –	%	ISO 527-1/-2
Flexural modulus	2800 / –	MPa	ISO 178
Flexural strength	105 / –	MPa	ISO 178
Charpy impact strength (+23°C)	N / –	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / –	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	66 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	180 / *	°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
ELECTRICAL PROPERTIES			
	<i>DRY / COND</i>		
Relative permittivity (1 MHz)	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

Property Data

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OTHER PROPERTIES			
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	1130 / –	kg/m ³	ISO 1183
MATERIAL SPECIFIC PROPERTIES			
Viscosity number	118 / *	cm ³ /g	ISO 307, 1157, 1628

Viscosity–shear rate

