

Novamid[®] 1010CH ES

PA6

Low Viscosity, Injection Molding

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<i>RHEOLOGICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Molding shrinkage (parallel)	1.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
<i>MECHANICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Tensile modulus	3100 / –	MPa	ISO 527-1/-2
Yield stress	85 / –	MPa	ISO 527-1/-2
Nominal strain at break	19 / –	%	ISO 527-1/-2
Flexural modulus	2900 / –	MPa	ISO 178
Flexural strength	113 / –	MPa	ISO 178
Charpy impact strength (+23°C)	N / –	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	2.5 / –	kJ/m ²	ISO 179/1eA
<i>THERMAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	73 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	171 / *	°C	ISO 75-1/-2
<i>ELECTRICAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Relative permittivity (1 MHz)	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

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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

Viscosity–shear rate

