

Novamid® 1010CH ES

PA6

Low Viscosity, Injection Molding

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	1.1 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
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
Thermal properties			
	dry / cond		
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
Electrical properties			
	dry / cond		
Relative permittivity (1 MHz)	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

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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

