Novamid®

Novamid® 1010CH1

PA6

Low Viscosity, Injection Molding

Print Date: 2019-10-04

Properties	Typical Data	Unit	Test Method
Mechanical properties	dry / cond		
Tensile modulus	3500 / -	MPa	ISO 527-1/-2
Yield stress	90 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	ISO 527-1/-2
Nominal strain at break	12 / -	%	ISO 527-1/-2
Flexural modulus	2900 / -	MPa	ISO 178
Flexural strength	105 / -	MPa	ISO 178
Charpy impact strength (+23°C)	N / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3 / -	kJ/m²	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)	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
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
Electrical properties	dry / cond		
Relative permittivity (1 MHz)	4 / -	-	IEC 60250
Dissipation factor (1 MHz)	230 / -	E-4	IEC 60250
Volume resistivity	>1E13 / -	Ohm*m	IEC 60093
Surface resistivity	- / 2E14	Ohm	IEC 60093

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Electric strength	27 / -	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/m³	ISO 1183
Material specific properties	dry / cond		
Viscosity number	118 / *	cm³/g	ISO 307, 1157, 1628

Viscosity-shear rate