

Novamid® ST220 NAT

PA6-I

Impact Modified, Injection Molding, Medium Viscosity

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	1.5 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	2100 / 630	MPa	ISO 527-1/-2
Yield stress	50 / 30	MPa	ISO 527-1/-2
Yield strain	4.4 / 21.6	%	ISO 527-1/-2
Nominal strain at break	35 / >50	%	ISO 527-1/-2
Flexural modulus	2000 / 650	MPa	ISO 178
Flexural strength	76 / 30	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	85 / N	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)	53 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	87 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.9 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
Electrical properties			
	dry / cond		

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Relative permittivity (100Hz)	4 / -	-	IEC 60250
Relative permittivity (1 MHz)	3 / -	-	IEC 60250
Dissipation factor (100 Hz)	100 / -	E-4	IEC 60250
Dissipation factor (1 MHz)	180 / -	E-4	IEC 60250
Volume resistivity	9E12 / -	Ohm*m	IEC 60093
Surface resistivity	* / 3E13	Ohm	IEC 60093
Electric strength	29 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1070 / -	kg/m ³	ISO 1183